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CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JANUARY 7, 1899.

NO. 1



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
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"Patented June 3, 1890"
are stamped on the under
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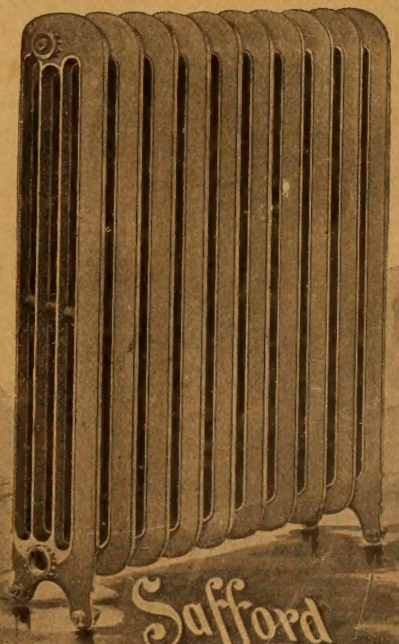
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Montreal, Quebec, St. John, Winnipeg, Vancouver.



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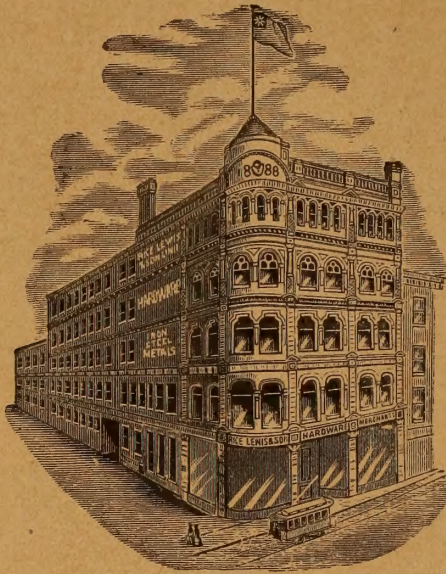
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Established 1825

Important Decision relating to the

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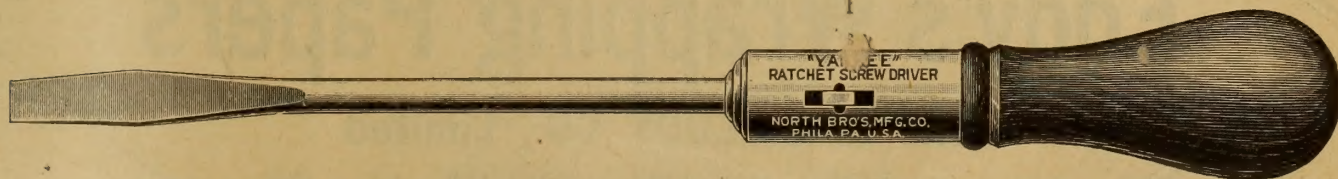
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Manufacturers of RUBBER GOODS of all descriptions.
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CAPITAL, \$1,500,000.

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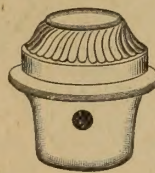
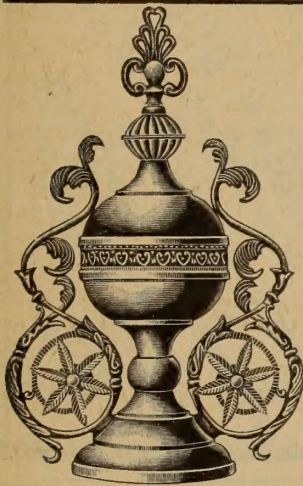
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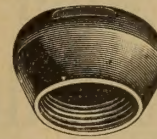
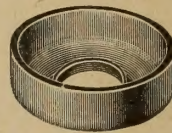
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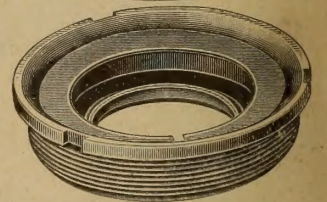
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Our PATENT BROAD HOOP bottom has all the advantages of three-piece bottom, but is practically two-piece. The rim of Patent Bottom is turned in over edge of bottom proper, making smooth, uniform edge, that will not tear floors of factories or waggons.

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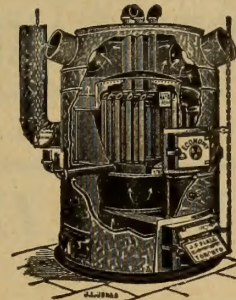
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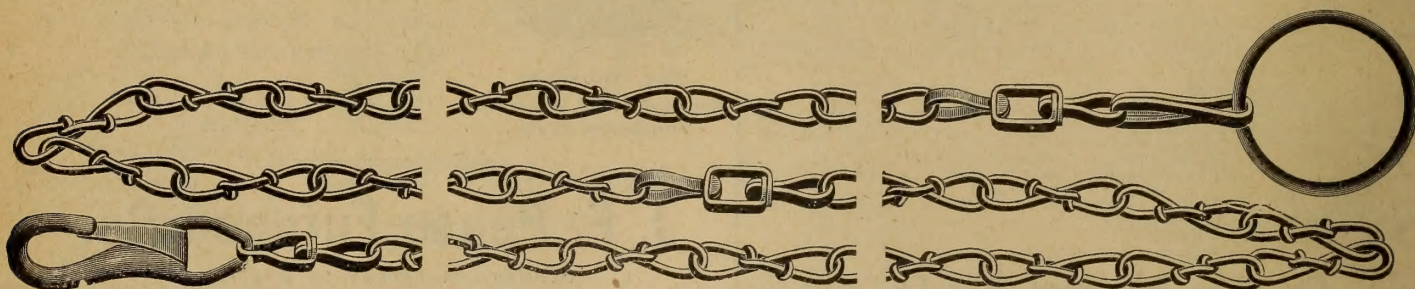
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You can depend upon prompt shipment.

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HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, JANUARY 7, 1899.

No. 1

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE WIRE NAIL SITUATION.

THE advance which was made by one or two houses last week has now become general, and \$1.75 represents the ruling figure for carloads and \$1.80 for smaller quantities, f.o.b. Toronto. Some houses will not, however, accept less than \$1.80 for any quantity, and no one appears to be anxious for business at the figures now ruling, while to book orders no one will, as far as can be learned, consent.

The wire nail market in the United States is in an exceptionally strong position, according to the reports of the trade papers received from that country. Single carload lots are quoted 5c. per keg higher than a

week or ten days ago, \$1.35 now being the figure f.o.b. Pittsburg.

Like those in Canada, the manufacturers across the border are doing as little business as possible, being confident that they will get higher figures shortly.

The price of wire rods at Pittsburg is \$2 dearer than a month ago, and 50c. dearer than on December 21.

The advance in the price of wire nails in Canada is only equal to about an advance of \$1 per ton in wire rods.

Plus duty and freight, the price of wire nails in Canada is about 40c. per keg below the figure ruling in the United States, so that it is obvious the makers here could materially enhance their quotations, and still not fear the competition of the imported article.

BARB WIRE IS DEARER.

BARB wire, of Canadian manufacture, is 10c. per 100 lb. dearer. The advance went in force on January 1, and prices are now as follows: Four point, \$1.90 per 100 lb.; two point, \$2 per 100 lb.; safety, \$2.10. Plain twist is also 10c. dearer, being quoted at \$2 per 100 lb. All these figures are f.o.b. Toronto.

Prices in the United States, while firmer, are quotably unchanged. At Pittsburg, \$1.70 f.o.b. is the idea for single carloads for prompt shipment, but it appears that this figure will not be accepted for future delivery.

A good business man maketh a good business, and he who is enterprising maketh a good business man.

A DANGEROUS COMMERCIAL DOCTRINE.

A MERCHANT is to be found here and there who boasts that he has never taken stock, and that, notwithstanding, he has been able to pay his way.

This is a dangerous commercial doctrine.

It is possible someone may yet safely swim the Whirlpool Rapids at Niagara without any artificial aid; but the probabilities are enormously against it.

It is possible a merchant here and there may make a success of business without taking stock; but the probabilities are against it.

He who makes a success of business must be a competent, thoroughly up-to-date man. And it follows that the man who has these qualifications would no more think of neglecting such an important essential as stock-taking than he would of keeping his stock unreplenished.

But whether the life of a business depends on stock-taking or not, one thing is certain: Neglecting to take stock at least once a year tends to make success less possible.

If a merchant does not know just where he is, how in the world can he tell what is best to do in furthering his business? And if he does not take stock, how is he to know where he is?

The merchant who does not take stock is always, to a more or less extent, groping in the dark, and obviously no one can make as good headway in the dark, whether it be the darkness of night or the darkness of business, as he can in the light.

He who is late to business is usually a lap behind the day through in his duties.

A YEAR OF CANADIAN TRADE.

THE year which has just bidden us adieu was, in a commercial sense, a most important one to Canada. Whatever may be the character of its successor, 1898 was a signal one in the history of the country.

A better knowledge of her resources has been obtained, greater effort has been made to develop them, and the home and foreign trade of the country is larger and healthier than at any previous time in the history of the Dominion.

The foreign trade of the country showed a most gratifying development. We have not yet, of course, got the figures for the 12 months of the year, but for the 11 months the aggregate trade was, in round numbers, \$274,263,000, of which \$134,601,000 were imports and \$139,662,000 exports. The following table gives the figures for the two past years :

	Eleven months, 1898.	Eleven months, 1897.
Imports.....	\$134,601,000	\$106,799,000
Exports.....	139,662,000	138,000,000
	\$274,263,000	\$244,799,000

Figures as to the volume of the home trade cannot be adduced, but it has probably been the most active in the history of the country. In a great many lines manufacturers have positively been unable to keep up with the demand.

Taking the bank clearing returns for the eleven months, ending November, we find that they aggregate \$1,266,668,334, compared with \$1,061,130,269, a gain of \$205,538,065 or over 19 per cent. This is the largest total since the establishment of clearing houses in Canada.

The traffic on the Canadian railways was very heavy during the past year, but the rate war, which prevailed for several months, naturally impaired their net earnings. The gross earnings of the Canadian Pacific for the eleven months, ending November, were \$23,467,860, an increase of \$1,741,068 compared with the same period last year, but the net earnings were \$54,061 less. The gross earnings of the Grand Trunk for the ten months were \$19,755,021, compared with \$19,183,269 the corresponding period 1897.

The shipping trade of the port of Montreal is another evidence of the expansion of trade, 516 ocean steamers, with an aggregate tonnage of 1,212,747, having entered the

port against 479 vessels, with a tonnage of 1,054,225, in 1897. In coastwise steamers an increase is also shown, there being 330 vessels with a tonnage of 345,000, against 300 in 1897 with a tonnage of 317,000.

Now, in regard to the commercial failures : The number during 1898 was 1,427, or 520 less than in 1897. The assets were \$4,085,722, against \$5,191,647, and the liabilities \$9,644,100, against \$13,147,929. The decrease of 36.33 per cent. in the liabilities is the most striking and pleasing feature in regard to these returns. The proportion of the assets to the liabilities was also more satisfactory, being 42.36 per cent., compared with 39.49 per cent. in 1897. In both failures and liabilities, the figures are the smallest in, at least, seven years.

In agricultural matters, Nature was most beneficent. Ontario had the largest crop of wheat in its history, and the quality of the same was exceptionally good, as well. The yield of fall wheat was 25,158,713 bushels, or 24 bushels per acre, and, of spring wheat, the quantity was 6,873,785, bushels, or 17½ bushels to the acre. Taking grain alone, the yield in Ontario last year aggregated over 150,000,000 bushels. With the single exception of potatoes, the root crops were all larger. The yield of tobacco was over 10,500,000 lb.

Manitoba and the Territories were also blessed most bountifully in this respect. According to the latest bulletin issued the total grain crop of Manitoba exceeded 47,000,000 bushels, of which over 25,000,000 bushels was wheat and 17,000,000 oats. The dairy produce of the Province is also developing, and 1898 was a favorable year for this industry, the total output of cheese and butter being valued at nearly \$500,000. Year by year the live stock of Manitoba is increasing in importance. Beef cattle to the number of 12,525 were exported from the Province, while of stockers 9,500 were shipped to the Northwest Territories to be fattened and 20,000 went to the United States.

The lumber industry has not been in as satisfactory condition as desirable, but exterior, and not interior, causes contributed to that, namely, the overstocking of the

British market and the \$2 duty imposed by the United States. In spite of these adverse influences 317,333,593 feet were exported by way of Montreal, compared with 300,420,069 in 1897, and 221,003,609 in 1896.

Canada is at the moment cent'ring much hope in its mining industry, and the results of the past year are most encouraging. In British Columbia the conditions are particularly promising.

In gold, in copper, and in silver, the prospects were never so bright. Rossland has passed through its critical stage, and the value and permanency of its mines are now assured. Neither now is there any doubt in regard to the Yukon country. In both Ontario and Nova Scotia there have been increased productions of gold. The output of gold in the latter Province is estimated at \$600,000, the largest in its history. The gold produced in Ontario during the first six months of the year was \$133,744, against \$190,244 for the 12 months of 1897, so that it is tolerably certain that the yield for the whole year will exceed that of its predecessor.

The outlook for the coal industry, like that of the gold industry, is promising. The output in Nova Scotia last year was large, and during the year upon which we have entered, promises to be still larger.

In British Columbia, the opening of the Crow's Nest Pass railway has materially improved the prospects of the coal mining industry in that Province. The collieries at Fernie, East Kootenay, have 150 to 200 miners at work. Fifty coking ovens are complete and several are in operation, while fuel is being shipped to the smelters. It is expected that the coking ovens will be increased to at least 150 before long. As an adjunct to the gold mining in British Columbia these Kootenay coal mines will be most valuable.

What Canada wants more than anything else just now is population, and the next few years will, in all probability, witness a substantial increase in this respect. The signs are not wanting, at any rate, for the number of homestead entries in Manitoba and the Northwest the past year were 4,426, compared with 2,383 in 1897, while the immigrants were 27,171, against 10,864. Then, there are the number of people who have gone into the Klondyke and into the various mining camps in British Columbia to be taken into account.

THE SPADE AND SHOVEL QUESTION.

A SUBSCRIBER returns to us the page in our issue of December which contains the interview with Mr. Jones re the spade and shovel question. He takes exception to some of Mr. Jones' remarks, and expresses his view on the margin of the paper.

Referring to the statement; "If the manufacturers in the United States have refused to quote Canadian importers it is simply because they do not want the business," our subscriber remarks, "They are paid to keep out of Canada."

Then he underlines this statement of Mr. Jones, which reads: "But the agreement does not prevent them (the American manufacturers) from selling to the Canadian jobber if they desire to do so." And, in rebuttal, he produces an article from Iron Age of December 15, underlining these words: "The manufacturers here have agreed to keep out of the Canadian market."

Mr. Jones has stated that the Canadian spade and shovel association does not pay the United States association to keep out of the Canadian market, nor has the latter agreed to do so. And, unless proof positive to the contrary is adduced, we are not prepared to decline to accept his statement.

But one thing is certain, Canadian jobbers have not been able to get quotations for spades and shovels from manufacturers in the United States. As manufacturers of other lines of goods across the border have only been too ready, as a rule, to quote the Canadian trade, it is strange, indeed, that ever since the Canadian association affiliated with the American association, the spade and shovel makers of the United States have, in reply to requests for quotations, stated that they did not quote for the Canadian market. It cannot be that they are always too busy to take new business. Perhaps it is that the spirit of fraternalism between the United States and Canadian members of the spade and shovel association is so strong that the one would not deign to invade the territory of the other. But whatever the reason may be they do not.

Our subscriber, in one of his marginal notes, remarks: "American-made shovels have been brought into Quebec this year at

prices laid down lower than Olds." In an article, which appeared in a former issue of *HARDWARE AND METAL*, this was pointed out, but it will be remembered that the importer got them through a jobbing house in the United States and was unable to repeat the order.

In Iron Age of December 15, there also appears this sentence:

The strictness, too, with which the Canadian manufacturers insist upon the merchant signing a declaration that he has not sold any goods made outside of the Canadian association, is exasperating to the merchant, but the agreed rebates are not paid unless such declaration is made.

This statement is, in effect, true. The Canadian jobber does not get the specified rebate if he buys spades and shovels from manufacturers other than those in the association.

The position, therefore, of the Canadian jobber is this: He cannot buy in the United States, and if he could he would not receive the rebate from the Canadian maker, unless he could keep the latter in the dark.

PIG TIN MUCH DEARER.

Pig tin was slightly easier in both London and New York on Wednesday, but this was merely a reaction from the previous advances.

Until the development of this slightly easier feeling prices were fairly jumping, gaining something like a pound sterling per day on an average. In New York, stocks are so light that sellers are, at the moment, supreme in dictating prices.

The demand in Canada is more active and stocks are low, while quotations are several cents higher. In Toronto this week jobbers have marked their figures up to 24c. per lb. for Lamb and Flag, and 23½c. for Straits, in ordinary quantities.

NEW MINIMUM CARLOAD WEIGHTS.

The new minimum carload weights, to which the Canadian railways agreed, went into operation on January 1.

Under this agreement, the minimum carload weight of fifth and sixth class freight will be 24,000 pounds, or 4,000 pounds more than under the old order of things. Exceptions, however, are to be made of certain light and bulky goods, as provided for in classification.

The railways claim that the improved car equipment of the railways in Canada permit

the carrying of greater weight than that specified, and that shippers, being able to ship larger quantities, will appreciate the change.

DROPS FROM THE EDITOR'S PEN.

Have opinions, but do not deny others the same right.

When merchants unite their grievances begin to scatter.

Ruts lead away from success. Do not get into them.

Obedience to the laws of business brings the blessing of success.

The ideal window display sells goods as well as attracts attention.

Merchants with narrow views should not expect much expansion in their business.

One may lose something by being honest, but not as much as he will by being dishonest.

Hammer away at business, and hammer hard. Do not be afraid that you will make too much noise and wake up your competitors.

A BUSINESS MAN REJECTED.

HARDWARE AND METAL exceedingly regrets the defeat of Mr. Tilden for the Hamilton mayoralty.

As a business man he should have been elected.

Newspapers that were opposed to him acknowledged that the office was one which demanded business principles in its conduct, but they solaced themselves with the alleged belief that Mr. Tilden's opponent, a lawyer, was blessed with business qualities, and, therefore, was just as qualified as he for the position.

Then, the organized labor vote was against Mr. Tilden. He had deigned, some years ago, in connection with his own business, to do something which did not please that body. Consequently he had its opposition instead of support, notwithstanding his importance as an employer of labor and the support that was due to him as one who has done so much in building up the industries of the "Ambitious City."

But it is not the first time similar mistakes have been made.

FILES: HOW TO GET BEST RESULTS FROM THEIR USE.

THE Arcade File Works, Anderson, Ind., and No. 97 Chambers street, New York, whose advertisement appears on page 17, have in course of preparation a series of articles on the use of files in shop practice, written by the well-known expert and authority on such matters, W. H. Vandervoort. From the opening article of the series, we take pleasure in extracting the following:

"In the operations of filing, satisfactory results depend fully as much on the intelligent, skilful use of the file as on the tool itself. The skilled mechanic appreciates a good file, not because it will stand rough usage better, but because, with proper use, he can produce more and better work than with one of inferior quality. Give him a file correct in form, shape of teeth, quality of steel and temper, and he will produce surprising results before this file reaches that point of wear beyond which economy of time will not allow him to go.

"The kind of metal, the form of the work surface and the finish to be produced must determine in each case the correct files to use. Of these the material and its hardness are the factors that most affect the life of the file. The nearer the hardness of the work approaches that of the file teeth, the slower will the file cut and the more rapid will be the wear on the teeth.

"The greater the number of teeth in contact with the work surface, the more will be the pressure required to make the file bite. In filing broad surfaces the number of teeth that may be brought into contact with the work at any time will depend on the curvature or belly of the file. The greater the curvature the smaller the contact surface and the freer will the file take hold of the work. Ordinarily not more than one inch of the file's length will at any one position touch the surface of the work. When the surface is narrower than the length of contact fewer teeth come into work, and for the same pressure the teeth will bite keener. If, now, for the thin or narrow work a file is used, the teeth of which have lost, through wear, their keenness, it will cut the narrow surface as readily as the new one will the broader. We should, therefore, use the new files on the broad surfaces first, as they can be used on the narrow work when too dull to readily bite on the broad.

"The file does not bite the cast metals as readily as it does the rolled; consequently, a sharper file is required for cast iron and brass than for wrought iron and steel. For these reasons, the new file should be first used on the cast iron and brass, and, when they become too dull to work these metals efficiently, they may be used on the steel

and wrought work. A new file will pin and tear the surface of these latter metals much worse than the file that has seen a moderate amount of duty on cast iron and brass. A new file will leave a smoother surface after it has been used for a few strokes, these strokes causing the high teeth to give down a little, which prevents the danger of their scratching the work.

"The first dozen strokes of a new file on a rough piece of steel frequently lessen its

you never can succeed in that line. To make money dishonestly is the hardest thing in life. Therefore, preserve your integrity. John Randolph, of Roanoke, once said: "I have found the philosopher's stone, and it is this rule, 'Pay as you go.'" Nothing is truer. The road to wealth lies in paying out less than we take in.—William Waldorf Astor.

From an advertisement on page 15 it will



cutting value as much as an hour's steady use on soft cast iron, yet not seriously injuring it for the steel work. Narrow surfaces are exceedingly hard on new files, and especially so on the double cuts, as but few teeth came in contact with the work, and they bite so freely that they are broken off by the excessive strain.

"Not until the file becomes too dull to be used efficiently on the narrow steel work should it be used on the scale of cast iron or forgings, as this scale is frequently harder than the file."

It is the intention of the Arcade File Works, upon the completion of the series, to publish them in book form under the name of "Practical Talks on Files," to be mailed free to any user of files who will forward his name and address.

THE CARPENTER GRASS HOOK.

The Carpenter grass hook, as advertised on page 32, and as herewith illustrated, is being manufactured to meet the growing demand for a first-class article. Combining, as it does, all the advantages of the old style sickle, edger and weeder, its practical value is at once apparent. The blades are tempered in oil and ground with extra wide bevel; the handles are hardwood, with strong malleable iron ferrules; tangs are securely riveted through the handles, and shank of blade is so set in handle as to prevent any possible twisting or turning when in use. Samples and quotations will be promptly furnished to the jobbing hardware trade, and dealers in general will do well to learn more of this hook before ordering their supply for the coming season.

WORK ONE KIND OF BUSINESS.

Never try to work at more than one kind of business at a time. Persevere in whatever you are engaged in until you have succeeded, or until you are satisfied that

be learned that M. Schroyer's Sons & Co., 49 Blue Island avenue, Chicago, manufacturers of Mrs. Potts' sad iron handles, are not members of the combination existing in these goods.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

WHAT IS PROFIT?

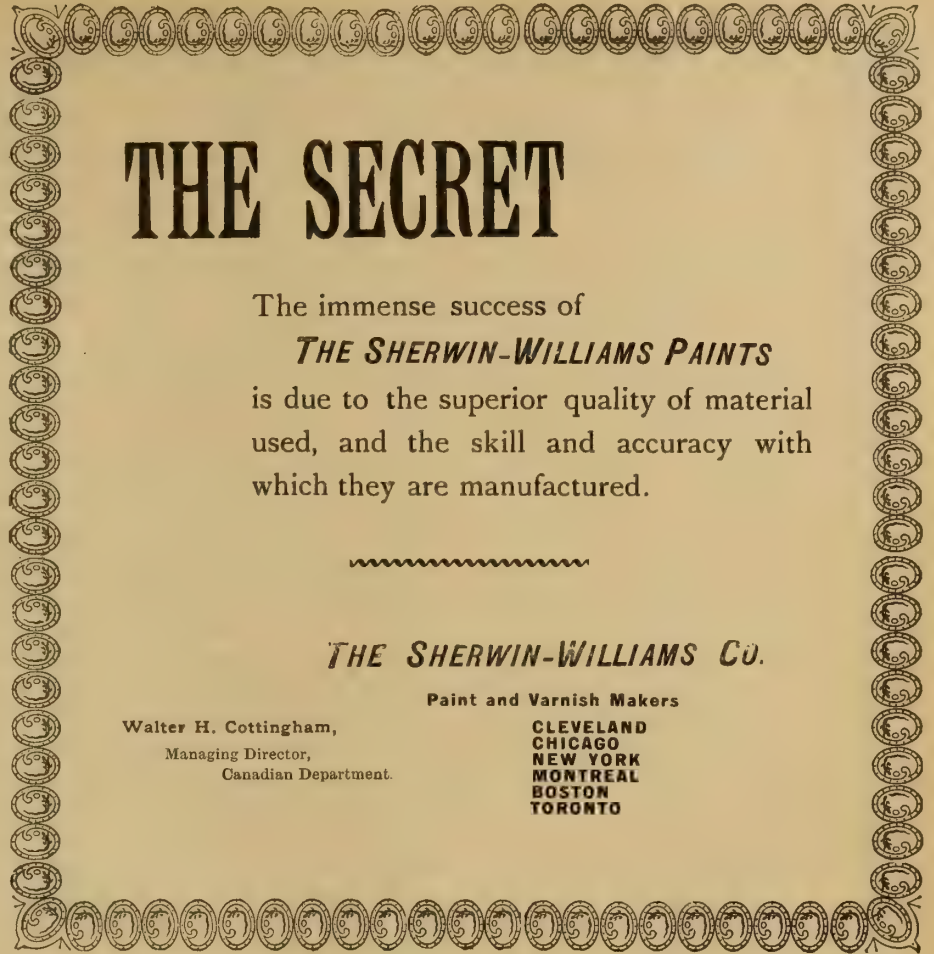
By E. Ballard.

I WONDER how many merchants have any idea of what their actual profits are? Of course, you are well aware what every article is billed to you at, and, of course, you know what you sell it at. But, if you are of the opinion that the difference between the bill price to you and the retail price at which you sell it is your actual profit, you are about as much mistaken as you can be.

The trouble with too many storekeepers is, they haven't any exact idea of what their goods cost, nor have they anything more than a general idea of what it costs to do business. If you should make ten thousand sales of \$1 each in a year, and each of those articles cost you just 62 cents, your profit would not be \$3,800, although that is the way that too many merchants reckon their profits. Out of that \$3,800 you must reckon, say, \$1,000 for rent, and such expenses as lighting and heating; as much more for clerk hire, and, perhaps, half or a quarter as much for advertising. By the time that \$2,250 or \$2,500 is taken out, it leaves you much less than half of the \$3,800 for your profits. If you add to that \$1,000 for your own services, and, certainly that is cheap enough, you have left, perhaps, \$300 or \$500 for actual profits. This, of course, is a supposable case. Nobody is doing a retail business and making every sale at \$1, neither are all your goods bought at 62½ cents apiece, or pound, or yard, or bunch, or whatever may be the unit.

There are many men who have made business failures without knowing the reason why, simply because they did not make a proper profit; and the real reason why they did not make this profit was because they did not know the exact cost of selling them. Next to the importance of knowing just how much stock to have on hand, and how much money, and how much indebtedness other people hold against you, is the question of how much profit you have made. In many lines of goods there is a distinct and easily-reckoned depreciation. From the time they get into the store until they are sold, they steadily shrink in value, and this depreciation must be reckoned in the cost. Where goods come from a distance the cost of expressage or freight, and the cost of boxing and carting are sometimes important items in reckoning the cost of goods.

The man who discounts his bills can usually make those discounts pay the cost of delivering his goods, and, perhaps, you are not one of those who take advantage of the discounts. It is said that a leading dry goods house in New York, stated in their advertisement that they would sell for the first year after they had opened, at exact



THE SECRET

The immense success of

THE SHERWIN-WILLIAMS PAINTS

is due to the superior quality of material used, and the skill and accuracy with which they are manufactured.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

Walter H. Cottingham,
Managing Director,
Canadian Department.

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

cost, and I think that it is on record that the advertising manager, in explaining what exact cost meant, reckoned not only what the goods cost according to inventory, but also the cost of laying them down in his store, and the estimated cost of rent, interest, taxes, light, heat, clerk hire and proprietor's salary, at a good round sum. If I remember rightly this added at least 12 per cent. to the inventory price of the goods.

Some manufacturers claim that they can do business cheaper than others because they own their own stores or because members of their families act as their clerks, without salaries, or that they have their own teams for carting and in other ways they save money. It is all right to claim that they save by these things, but they should be reckoned just the same. Because you own your own store and do not have to pay rent to a landlord, do not be so blind as to say you do not pay any rent. The fact is, you are occupying a store which could be let to someone else at a good rental and you are using what that tenant would pay you for if you were not occupying the store yourself. Therefore, you are paying rent.

It is the same way with your clerk hire, if your son, your wife, or some other member of your family does it for you. And it is the same way regarding your teaming

if you have your own horse and wagon to carry your goods. These items are actual expenses in one way or another and cannot be left out of reckoning when cost of doing business is taken into account.

There is one other item which too few merchants reckon in as the cost of doing business. Almost everybody, or entirely too many people, does more or less credit business and I never yet knew a man who did credit business who did not lose some of the accounts he had on his books. This loss must be paid for and is another important item in reckoning the cost of doing business. Another important item is the depreciation of stock. I have spoken of this before, but I wish to call attention to it again. Every merchant has goods on his shelves or in his storeroom on which it would be difficult to get their first cost, and this loss is one which should be considered when the year's business is taken into account.

The first of January has reached us, and the time for annual inventory is at hand. As soon as you have taken account of stock and found out how you stand it will be well worth while for you to reckon what it has cost you to do last year's business. I am afraid that some of you will find, if you look at it honestly and go into the matter

carefully, that you have paid pretty dearly for the amount of profit your books show. Reckon what you have paid out for all these items which go under the head of running expenses—the salaries, the cost of lighting and heating the store, the cost of such supplies as paper, twine, etc., the taxes, interest on capital, in fact, everything which comes under the head of expense and which cannot be charged definitely to the cost, or I would prefer to say the bill price of the merchandise. Reckon this up and see how large a percentage it is of the total sales for the year. Remember to charge as your salary, the amount of money you have drawn during year, and do not forget that what goods you have taken out of the store should be charged just the same as the money. By this means you will be enabled to see what are your net profits. Another interesting thing will be to see just what lines are not paying you actual profit. It may show you that you are selling some goods entirely too low, and in this case it is none too soon you turned over a new leaf and to do business in future but for profit, and remember that there is a great difference between real profit and seeming profit.

Every dealer is apt to ask, at some time or other, what percentage he should add to cost in order to sell at proper retail prices. That is a question for the dealer himself to decide. But, if he does not know how much it is costing him to do business, he will never know how much he should add to cost in order to make a profit. Look out for the leaks. This is a principal one, and the dealer who does business without profit is one who will, sooner or later, go into bankruptcy. Do not make up your mind that a level profit, or a certain per cent. on all goods, will show a profit. Some goods cost much more than others to handle, and this fact must be considered. But be sure you do make a profit on every line. If there is one which you cannot sell at an actual profit on the basis I have outlined, the sooner you drop that line the better for you and for creditors.—Trade Magazine.

AMONG TORONTO RETAILERS.

Holiday Trade Displays. During the holiday season just past I was impressed with the fact that the displays in the majority of hardware stores were unique in that they would be just as suitable at any time during early winter as at Christmas. They lacked the distinctly holiday appearance, which was so noticeable in the average store in other lines of business—in the grocery store, for instance.

The grocer sells at Christmas time certain fruits, nuts, etc., which are not sold as

largely at any other season, so he makes a special display of these goods. To make this display the more special, evergreens, holly, and mistletoe are used, with excellent results. The hardware dealer, unless he handles toys, etc., does not handle any line of goods which meet any special Christmas demand, and, consequently, his window is dressed much the same at Christmas season as in the weeks preceding and succeeding that time.

Very little evergreen was used by the hardware dealers; in fact, I think a good deal more could have been used to advantage.

In some of the best windows, fancy hand-painted signs played an important part. In J. T. Russell's King street store many of these signs were used in the window with remarkable effectiveness.

Inquiry brought out the fact that these signs were designed and painted by one of the clerks in the store. Few stores are likely to possess a clerk with the ability at this kind of work shown on these cards, but in nearly every business place some person is to be found capable of doing plain lettering in one or two colors, and, as all hardware dealers carry the dry colors and turpentine, these cards can be painted at very little expense. And it might develop in the clerk an unexpected talent which should

prove profitable to both clerk and employer. The majority of the hardware stores in the city had one window devoted to skates and general cutlery. The best windows containing these goods had one point in common—the back and sides, as well as the floor of the window space, were devoted to the display. The whole window space, to a height of six feet or more, was covered with some fabric or other, generally brown, red or blue in color.

On the floor, the goods were arranged in small piles, in rows, or arranged to form one, two or three large, conical-shaped mounds. On the walls, they were arranged in all manners of designs, stars, circles, squares, triangles, etc.

The most effective design of this nature that I noticed was a display of scissors. The back of the window was a thin board, covered with blue cloth. In the centre of this board, some eight or nine large scissors were fastened, the points all touching, the handles forming a circle. At each corner of the board, a quarter circle was formed of scissors, about six inches long, by fixing them with the points meeting at the corners. Throughout all the remaining space on the board, nine circles, similar to the central one except in point of size, were made by scissors of many sizes. The effect was very pretty.

THE RAMBLER.

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinsplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent . . .

22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

37-39 Front Street West **TORONTO**

Reserve all your Spring
orders for our travellers.
It will pay you to wait
for them.

Orders Filled Promptly.

Graham Wire and Cut Nails are the Best.

H. S. Howland, Sons & Co., Toronto

Compliments of the Season.

THE NORTHWEST COMMERCIAL TRAVELERS' BALL.



THE Northwest Commercial Association added another to the long list of their social triumphs with the annual ball last Wednesday evening. The drawing-rooms of the hotel Manitoba were made beautiful with palms and flowering plants, bright fires gleamed in the open

grates, while the lights were not too brilliant to leave delightfully shadowy corners, where softly cushioned seats invited quiet tete-a-tetes.

In the small dining-room and large triangular corridor were the supper tables, bright with silver and gay with fragrant blossoms; here too were hugh blocks of ice with wells of delicious lemonade in their icy depths. The great dining-room was devoted to dancing, and made a most delightful ballroom with its decorations of evergreens, flags and colored lights. The tall spruce trees in the corners afforded easy vantage ground from which to view the dancers. The evening opened with a brief but choice concert programme in which the following Winnipeg artists took part:

PART I.

1. Overture..... Orchestra
2. Song..... "Outlaw"..... Field Dr. Smith
3. Song.... "There May be Eyes"..... Geisha Miss Barrett
4. Recitation.. "A True Story of the Battle of Waterloo"..... Mr. S. Brodie

PART II.

5. Duett..... "Estudiantina"..... Miss Barrett Miss Anderson
6. Song..... "Gay Hussar"..... Field Mr. O. H. Day
7. Song..... "Swallows"..... Cowan Miss Anderson
8. Violin Solo..... Mr. Mollord
9. Quartette.. "Sweet Day so Cool"..... Holden Misses Barrett and Anderson Messrs. Day and Smith

After the concert, while the room was being cleared of chairs, the guests strolled through the drawing-rooms, and engagements for dances were made. Promptly at 10 30 the orchestra struck up the first lancers, and in a moment the floor was crowded with dancers.

There were a noticeable number of pretty gowns, and pretty girls for that matter. That plain skirts are the best and most elegant for street wear no one will deny, but for a ball the frilled and rippled skirts are a

decided success. The number of white frocks was very marked, confirming the rumor that white is the color of the coming season. Next in popularity was white over a colored slip. There were also many dainty gowns in pink, pale blue and lavender. Among the younger matrons black seemed in special favor, and some of the toilettes worn were strikingly handsome. Altogether, the room, viewed from the gallery during the basket figure of the lancers, looked very much like a gay garden of flowers tossed in the wind. The travelers are ideal hosts, and there were no wallflowers but voluntary ones at their ball.

At midnight, supper was announced, and proved not the least delightful part of the night's enjoyment.

Dancing was resumed at one o'clock and kept up gaily until four a.m., when the notes of "God Save the Queen" brought the happy night to a close.

The committee who had charge of the the ball, and whose exertions were crowned with such success, was composed of: F. J. Cox, Jas. Mundie, Fred. W. Drewry, Wm. Hargreaves, L. C. MacIntyre, J. M. O'Loughlin, A. L. Johnson, K. McKenzie, A. P. Jeffreys, G. F. Bryan, R. M. McGowan, M. Healey, F. Agnew, A. McAllister, Frank Morgan, J. M. Lamb, E. L. Thomas, Geo. Wilson.

Among the guests from outside points were noticed: Alderman and Mrs. Halpin, and Miss Bertrand, Brandon; W. J. Arnott, Toronto; B. Limoges, Whitewood, and Miss L. Boyd, Carberry. There were some 250 guests in all.

HIGH FREIGHT ON "SMALLS."

It is admittedly to the interest of every hardware merchant to confine his purchases to as few houses as possible. The freight on what is termed "smalls" or shipments under 300 lb. is very high, and, after being paid, frequently leaves little or no margin for the dealer. In one important department, viz., that of paints, oils and varnishes, The Canada Paint Company advertise "everything for the hardwareman," and aim at furnishing every detail in the business. By ordering from them the dealer saves time, freight, and money. The large number of customers who buy from this Canadian company, exclusively, tends to show that this point is well understood and taken advantage of by the trade.

The main building of The W. R. Gardner Tool Works, Sherbrooke, Que., was destroyed by fire on Thursday last. The fire started in the polishing-room, and is supposed to have been caused by a spark from an emery wheel, which had got beneath the floor and smouldered for some time. The building and stock were only partly insured. This is the third occasion in a very short period that these works have been destroyed by fire.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

PRIEST'S CLIPPERS

Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM. SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready. Coates Clipper Mfg. Co. WORCESTER, MASS.

McLaskill, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

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SPECIAL TAX FOR DEPARTMENTAL STORES.

THE city council of Montreal has been for sometime laboring with taxation in general and with departmental store taxation in particular, and at a meeting held the other day it was decided to ask the Legislature for power to impose a special tax on the latter. The clause adopted reads as follows :

An additional special tax, not exceeding 10 per cent. of the annual assessed value of the entire premises in which departmental stores are maintained and carried on, may also be imposed upon such persons, companies or corporations, for each separate and distinct branch of trade and business maintained and carried on in such department stores.

HARDWARE AND METAL is not prepared to say that the scheme proposed by the city council is the best that may be advanced for the regulation of the departmental stores.

The departmental store problem is as intricate as it is large, and it is probable that effective, satisfactory, and, at the same time, just regulations will only be obtained by easy experimental stages. It will be necessary to step as the footing is felt to be sure. It would not be wise to make a move and then go back again.

The proposition of Montreal, if adopted by the Legislature of the Province of Quebec, seems an experiment worth the trying, although some difficulty might be ex-

perienced in defining a "separate and distinct department." That, however, is no reason why the attempt should not be made. It should only impel those who are promoting the scheme to greater effort in devising means whereby this or any other object may be overcome.

The departmental store is one of the many species of monopolies which are developing in this age, to the injury, not only of business men and property owners, but of municipal corporations as well.

The municipalities were the last to feel the effects of this particular class of monopoly. As long as it was only the ordinary merchant and the property owner that were being pinched they had not much concern. But, when closed stores meant decreased revenue from taxation, they became interested. And now various corporations in Canada and the United States are searching diligently for ways and means to compel the departmental stores to contribute their due share to the taxes of the respective municipalities.

With business men, property owners, and municipal authorities interested some feasible scheme should be evolved whereby the desideratum may be secured.

SULPHUR MATCHES LOWER.

Sulphur matches manufactured by The E. B. Eddy Co., Limited, have been re-

duced 25c. per case, the change going into effect on Tuesday.

"Telegraph" matches are now quoted at \$3.20 for 1 to 4 case lots, and at \$3 in 5 or more case lots. "Telephone," 1 to 4 cases, \$3; 5 cases or more, \$2.80. "Telephone," in $\frac{1}{8}$ gross boxes, 1 to 4 cases, \$3.20; 5 or more cases, \$3. "Tiger," 1 to 4 cases, \$2.85; 5 or more cases, \$2.65.

"Victoria" parlor matches have been increased 25c. per case, now being quoted at \$2.50.

Terms are without change, 5-case lots still being delivered.

NEW MATCHES.

A NEW list of matches has been issued this week by the E. B. Eddy Co., and, in addition to the changes in prices noted elsewhere in this issue, are some three or four new lines. The "Empire" is a sulphur match, put up in slide boxes, two dozen boxes in a package and five gross in a case. They are quoted : One case and under, \$2.35 per case; five cases and upwards, \$2.25. The advertising box match is a unique idea, and is printed for advertising purposes to suit customers in lots of ten thousand, at \$5 per thousand. The device is a paper folder, with the matches pasted thereon. "Little Comet" (wood vestas) is another new line. It is put up in small sliding boxes, and fits all match safes. There are 40 matches in a box. This match sells at \$2 per case. The firm is also now putting up the "Eagle" parlor match in slide boxes, 100 to the box, to sell at \$1.50 per case. The 200 "Eagle" will be continued, as heretofore.

For '99

We have pleasure in announcing to the trade that, for 1899, we are sole agents for Canada for the famous "**Quick Meal**" Gasoline and Blue Flame Oil Stoves.

Before placing any orders make a point of investigating the merits of these reliable "Quick-Sellers."

REPLETE with all the features that have made them so successful in the past—Quick Meal lines have now attained a higher point of perfection than any other vapor stove

THE "Wickless" Quick Meal Blue Flame Stove was put on the market last season—it had a phenomenal success, and will be made in full lines this year. You won't find anything to approach it!



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

THE THOS. DAVIDSON MFG. CO. AND ITS PRESIDENT.

THE THOS. DAVIDSON MFG. CO. are completing some extensive additions to their factory. Increasing business, particularly in lithographed tinware, has made more room a necessity. Two long parallel wings of the factory and warehouse have been joined by connecting walls, and another storey has been added. This, of course, greatly increases the company's facilities, both for manufacturing and for stocking goods. The completed factory will contain nearly $9\frac{1}{2}$ acres of floor space, and will be fitted with the best of appliances. A new lithographic press has been installed, which will enable the company to keep abreast of its orders. When every department is at work over 600 hands will be required.

Much of the success which The Thomas Davidson Mfg. Co. has attained is due to the energy of the president of the company, Mr. James Davidson.

Mr. Jas. Davidson was born on Sept. 21, 1854, in Montreal; was educated there, but later in life studied French at St. Anne des Plaines. He originally intended taking up a profession, and, with this object in view, took a course at the University of Edinburgh, and also studied law in his uncle's office in that city for a year. Returning to Canada, he entered his father's employ in 1870, as traveler, and, being then but 16 years of age, he enjoys the distinction of being the youngest traveler who has ever sold tinware on the road. After six years traveling in the Province of Quebec he became a member of the firm, and, while still continuing to travel to some extent, paid more attention to the financial department. At this time the

firm had but two travelers, and Mr. Davidson has told, to the amusement of his hearers, how he was manager, traveler, shipper and invoice clerk combined, but claiming that in these days an all-round man of this type is not appreciated.

In the early 70's the firm began stamping pressed ware by putting in a few machines for pieplates, etc., which were increased from time to time, and which were largely augmented by various other machines,

Davidson, which have placed them at the present day in the highest state of perfection.

For many years previous to the manufacture in Canada of enameled ware, Mr. Davidson realized the necessity of so doing, and for years kept in correspondence with German agents in the endeavor to secure men who thoroughly understood the work, and in 1892 made a special trip to Germany in this quest. In 1894 success attended his efforts, and ever since rapid strides have

been made in its manufacture, although, during the years that have intervened, difficulties and discouragements have been overcome that would have discouraged anything short of a cast iron will and exhaustless enterprise. To-day, Mr. Davidson has the satisfaction that color, quality or decoration cannot baffle them, and the voluntary expressions of approval from the trade in general are ample reward for untiring perseverance.

In retrospect upon a life's work, Mr. Davidson can look back to 1870, when he became identified with the firm, when 60 by 25 ft. was the extent of the factory, with two travelers, up to the present day, when the plant has a floor space of $9\frac{1}{4}$ acres, employs 500 hands, and manu-

factures about 12,000 different articles.

Only four mile posts past the fourth decade in life, Mr. Davidson has still many years of usefulness in store, and with such a start and the untold possibilities of this Canada of ours, one cannot possibly estimate to what magnitude this industry may grow.

Mr. Davidson is a member of the Montreal Board of Trade, the Dominion Travelers' Association and the M. A. A. A. Notwithstanding his busy commercial life, he has devoted some time to military matters,



MR. JAMES DAVIDSON, President of The Thomas Davidson Manufacturing Company, Limited.

being the inventions of the late Mr. Thos. Davidson, and some of which are still in use. About this time Mr. Thos. Davidson devoted his attention entirely to the manufacturing, while Mr. James Davidson took charge of the financial and sales departments. About the years 1888 to 1889 broad hoop milk can trimmings came into use and were largely put on the market by this firm. Since that time many improvements have been made in their manufacture, mainly at the suggestion of Mr. Jas.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon**KNOX HENRY.**Heavy Hardware and Metal Broker
Room 220 1/2 Board of Trade, MONTREAL.**SPECIALTIES**—C Brand Horse Nails—Canada
Horse Nail Co.**BOLTS**—Tire and Stove Rivets of all kinds—
Chalcraft Screw Co.**BRASS GOODS**—Gunn Castor Co., Limited,
Birmingham, Eng.**English Castor Oil**

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second PressureIn cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.**The Hull Oil Manufacturing Co.**

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

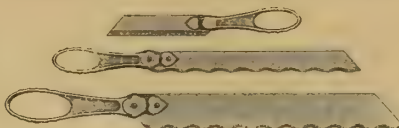
MONTREAL

Not in the Combination

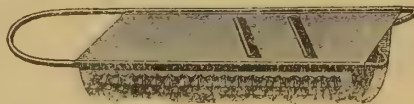
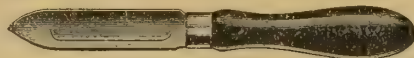
Write for prices on

MRS. POTTS SAD IRON HANDLES.**M. SCHRAYER'S SONS & CO.,**

49 Blue Island Ave., [Chicago, Ills.]

ILLINOIS CUTLERY CUTS !**No. 1 Bread Knife Set.**One each, Bread, Cake and Paring Knife, malleable
handles firmly riveted to steel blades, will cut hot or cold
bread without crumbs. Each set in paper box.

PAT. AUG 13, 1893

**Combined Grater and Slaw Cutter.**The only one; slicer and grater are detachable; slicer
sheet made of Apollo galvanized iron with steel cutting
blades. It will slice cabbage apples, potatoes, cucumbers,
onions, turnips, beets, and everything in the vegetable line.
It is a time and labor saver; is used in the kitchen every
day.**Famous Parer and Slicer.**Polished beech handle, nickel plated steel blade and
ferrule, takes off an even peel, easily sharpened and
cleaned. The best paring knife for potatoes, apples, pears,
turnips, quinces and firm peaches. Write for our catalogue,
Sole Canadian Agents, Squire, Watson & Co., Montreal,
Canada; Chas. E. Santo, London, Canada.**ILLINOIS CUTLERY COMPANY,**

Decatur, Ill., U. S. A.

We are the Oldest and Largest Manufacturers of

**SCREWS and
BICYCLE PARTS**in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

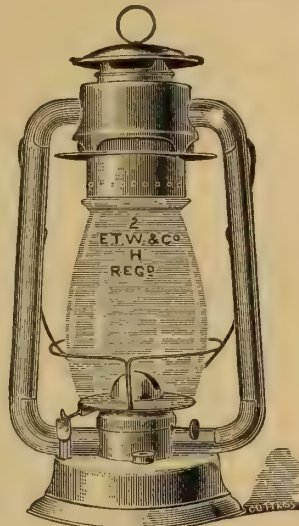
The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.

E.T. WRIGHT & CO.

Manufacturers of

Milk Can
and
Creamery
Trimmings
Stamped and
Pieced
Tinware
Bird Cages
Flour Sifters
Mouse Traps**HAMILTON - CANADA.****CORDAGE . .****ALL KINDS AND FOR ALL PURPOSES.**Manilla Rope
Sisal Rope
Jute Rope
Russian Rope
Marline
Houseline
Hambroline
ClotheslinesTarred Hemp Rope
White Hemp Rope
Bolt Rope
Hide Rope
Halyards
Deep Sealine
Ratline
Plow LinesLath yarn
Shingle yarn
Bale Rope
Lariat Rope
Hemp Packing
Italian Packing
Jute Packing
Drilling Cables andSpun yarn
Pulp Cord
Lobster Marline
Paper Cord
Cheese Cord
Hay Rope
Fish Cord
Sand Lines"FIRMUS" Transmission Rope from the finest quality Manilla hemp obtainable.
Orders will not be accepted for second quality or "mixed" goods.**CONSUMERS CORDAGE COMPANY, Limited**

WM. B. STEWART, Agent, 20 Front St. E., TORONTO.

Montreal, Que.

TEL. 94.

and was with the Prince of Wales' Rifles at Pigeon Hill during the Fenian Raid. A shrewd, clear-sighted, up-to-date business man, quick in coming to conclusions, making business pleasant to all those who call upon him, an excellent judge of human nature, he knows well how to develop the best features in those around him, while his quiet, generous and unostentatious manner has endeared him to the hearts of all those in his employ. S. McK.

THE NEW TACK LIST.

The new tack list issued by the manufacturers does not show many changes in prices, although there have been a few increases in the discounts. The new list is as follows:

TACKS.	Per Cent.
Strawberry box tacks.....bulk	75
Cheese box tacks, blued....."	80 and 20
Trunk tacks, black and tinned....."	80 and 12½
Carpet tacks, blued and tinned....."	80 and 12½
Carpet tacks (in kegs).....	50
Cut tacks, blued, in dozens only.....	80
" ¼ weights.....	60 and 10
Swedes cut tacks, blued and tinned:	
In bulk.....	80
In dozens.....	70
" Upholsterers'.....bulk	80 and 20
" Brush, blued and tinned....."	50
" Gimp, blued, tinned and japanned.....	75
Zinc tacks.....	35
Leather carpet tacks.....	65
Copper tacks.....	62½
NAILS.	
Copper nails.....	65
Trunk nails, black and tinned.....	75
Clout nails, blued and tinned.....	75
Chair nails.....	45
Cigar box nails.....	45
Patent brads.....	50
Fine finishing.....	45
Picture frame points.....	25
CAPPED GOODS.	
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk.....	80 and 20
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only.....	60
Tin capped trunk nails.....	15
Zinc glazier's points.....	15

All lines of tacks on the hardware list which do not appear on the above table are now sold on the open market.

PERSONAL MENTION.

Mr. M. A. Gendron, hardware dealer, Penetanguishene, Ont., is in Toronto on business.

Mr. G. C. Malcolm, who has been for about twelve years a member of the staff of The Toronto Lead and Wire Co., Limited, has been appointed city representative for Stewart & Wood.

Mr. Thos. F. Kirkham, stove and hardware dealer, Lethbridge, is on a business trip to Toronto, and is making good use of his time here by visiting the works of the large manufacturing establishments in the city.

Mr. Jas. Drew, representative of The Gunney Foundry Co., Toronto, in Manitoba and the Northwest Territories, is now in Toronto. He reports that the results to his firm of the establishment of their Winnipeg agency have been fully up to expectations, and that the prospects for the development of the business are bright.

ENGLISH TRADE WITH CANADA.

ALBERT EDUARD HAHN, representing Schaffer, Hahn & Behrens, Birmingham and Hamburg, was in Toronto this week in the interests of his firm. This is Mr. Hahn's second visit to Canada, and he reports a decided improvement in business since he was here last year.

"Trade," he said, "is improving for English goods. This is especially the case in the northwestern part of Canada and British Columbia."

"Do you think, then, that the preferential tariff is going to benefit English manufacturers?"

"I do. The English manufacturers are looking forward to Canadian trade, and a great deal more than they did. But you know they are a little slow in getting out new samples required by the Canadian trade."

"I understand that several inquiries have been received in Canada from English manufacturers, asking for samples of goods in order that they may the better compete for the Canadian trade. Do you not think that they should send representatives, or come out themselves in order to be able to successfully do business?"

"Yes, I do, and a good many of the manufacturers are coming out to this country or sending their representatives, who have not hitherto done so. This is particularly true of cutlery men."

"What do you think of the possibility of English makers of spades and shovels doing business in Canada?"

"They undoubtedly could do some business, but the difficulty is in regard to the patterns. We can make the patterns all right enough, but we are afraid that, after having made the desired patterns, the Canadian and American manufacturers will come down in their prices and shut us out. We cannot compete with low-priced American goods. The spades and shovels we make are superior to those made on this side of the Atlantic, and, consequently, cost more. I noticed in British Columbia that the American picks were in general use, but they are a great deal inferior to the English make."

"But could you not make the cheap shovels?"

"No, we could not make them at a price to compete with the shovels made in the United States."

"In regard to German goods. What do you think of the possibility of the cheap class maintaining its hold upon the trade in Great Britain and in this country?"

"Oh, I think that, as far as the cheap goods are concerned, the Germans will do a large share of the business."

Mr. Hahn goes east from Toronto, and, after visiting Halifax, will return home by way of New York.

CATALOGUES, BOOKLETS, ETC.

"AT IT AGAIN."

Such is the title of the bright, pithy booklet The Sherwin-Williams Co., paint and varnish makers, Montreal, have just issued. This title hardly describes the energy of this firm, for they keep so everlastingly at it

that "Always at It" would be nearer to the mark than "At it Again." The mission of this booklet is to tell the trade that the Canadian branch of the firm's business is rapidly extending. Their business last year was three times as large as that of two years ago. New buildings have been erected, and the equipment of the Montreal branch has been generally improved, and more additions are anticipated. The closing suggestion is worth considering, for it is emphatic in the statement that "now" is the time for dealers considering accepting an agency to secure a stock of the Sherwin-Williams paints.

WORTH SENDING FOR.

The Apollo Iron and Steel Co., Pittsburg, Penn., have issued a complete table of the standard sizes of "Apollo Best Bloom" galvanized sheets, from gauge 10, and size 24 x 72, to gauge 30, size 36 x 120, showing the weight of sheets and bundles (without bands), the number of sheets in each bundle, and the square feet per sheet.

The enterprise of this company is also shown in the issuing of a beautifully lithographed view of their works at Vandergrift, Penn. This view is over a yard long and nine inches deep, and, besides a birdseye view of the works and the workmen's homesteads in Vandergrift, contains a magnificent pastoral view of the surrounding hills, vales, and streams, well lithographed in natural colors. From an artistic standpoint, this view is as valuable as the "Apollo" sheet table is convenient to the hardware dealer. Both of these can be secured by writing to The Apollo Iron and Steel Co., Pittsburg, Penn., and mentioning HARDWARE AND METAL.

FIVE MAKES OF BINDER TWINE.

Mr. H. Davis, of The Sewall & Day Cordage Co., Boston, Mass., was in Toronto this week. His company is, this year, making a special effort to obtain a share of the Canadian trade in binder twine. It last year did some business, and it was so encouraged with the results that it has decided, as already stated, to push the business more vigorously in this country. Mr. Davis states that already large contracts have been made and that the outlook for the season's trade is good.

The Sewall & Day Cordage Co. is one of the oldest established companies of the kind in the United States, having been established in 1835. It makes five styles of binder twine, namely, Sisal, standard, standard Manilla and pure Manilla.

The plant and buildings of this concern are comparatively new, as, a few years ago, the company was compelled to vacate its old building, the land on which the buildings stood having been expropriated by the civic authorities, in Boston, for park extension, and, when erecting a new building, the company put in new plant and machinery.

E. F. Walter, of E. F. Walter & Co., is on an extended business trip to Germany.

Mr. Edward Goodwill, one of the active directors of The Thomas Davidson Mfg. Co., Limited, Montreal, was in Toronto the latter part of last week.

If it's an ARCADE, it's THE BEST.

That the ARCADE FILE WORKS at Anderson, Indiana, is the largest and most completely equipped plant for the manufacture of files in the world, is a minor point. Its product is what you are interested in, and the ARCADE product stands at the head of file production for the common-sense reason that their methods and facilities are ahead of their competitors.

Mr. Alfred Weed, who is the superintendent and mechanical head of the company, is one of the oldest file makers in the United States, and has probably taken out more patents on file machinery than any other living manufacturer. The entire plant at Anderson is the product of his skill and practical experience, comprising machinery especially designed for turning out every detail of the work, not only by the most careful and systematic methods, but with the greatest possible saving of time and money. Fifty Cents goes as far here as a Dollar in many of the old-fashioned plants. Then, too, the company owns a tract of natural gas land from which their fuel supply is drawn—the cheapest fuel in the world; and buyers of ARCADE files get the advantage of all these economies by the increased value of the product.

WEED'S PATENT INCREMENT CUT FILES.



ARCADE FILE WORKS, ANDERSON, IND., U.S.A.

Established 1842.

NEW YORK: 97 Chambers St.

CHICAGO: 118 Lake St.



These facts show why it is safe for us to sell files under our guarantee that **THEY WILL CUT FASTER AND WEAR LONGER THAN ANY OTHER FILE ON THE MARKET, OR WE WILL MAKE NO CHARGE.** All our files have Weed's Improved Increment Cut, which equals the best English Hand Cut.

If you use files take advantage of this offer on a trial order, however small. There's absolutely no risk to you in the trial.

If it's an ARCADE, it's THE BEST.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Jan. 6, 1899.

HARDWARE.

THERE has been little or no improvement in the general hardware market during the past week, and little activity is anticipated until after the middle of the month. In regard to values there is no important changes to note, but the undertone in most lines is firm in sympathy with advices on the raw material, consequently, as soon as the demand sets in again, prices for some lines will likely be advanced.

BARB WIRE—Demand limited and prices steady at \$2 f. o. b. Montreal.

PLAIN WIRE—In this line no change has taken place yet, and trade is quiet with discounts at 37½ per cent. on oiled and annealed, and 30 per cent. on galvanized.

WIRE NAILS—Although prices for the material have advanced considerably jobbers are yet filling orders at \$1.70 to \$1.75, f.o.b. Montreal.

CUT NAILS—Nothing new in this line,

prices being unchanged at \$1.75 f.o.b. Montreal, Toronto, Hamilton and London.

HORSE NAILS—Trade of a sorting up character. Discounts are 50 per cent. on Standard, and 50 and 20 on Acadia brand.

HORSESHOES—Demand slow, as buyers are amply supplied. We quote: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—There is no change in values, and the demand is fair for small quantities. Discounts are as follows: Flat head bright 87½; round head do., 80; flat head, brass, 82½; round head, brass, 75. Machine screws, iron and brass, flat head, discount 30 per cent.; round head, 25 per cent.; coach screws, 75.

BOLTS—Trade quiet, with no change to note. Discounts are: Carriage bolts, ¼ to 5-16, 70 per cent.; ¾ and up, 60 and 10; machine bolts, ¼ and 5-16, 70 per cent., and ¾ and up, 65 and 10; stove bolts, 70

and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—There is a fair trade doing and discounts are 65 per cent. on black and tinned and 45 per cent. on copper.

CORDAGE—The demand for this article, as usual at this season, is limited, and the market continues somewhat unsettled. We quote the following: Sisal, 7-16 and up, 9¾ to 10¼c., and Manilla 10½ to 11½c., according to quality; smaller sizes, 1c. advance on this range.

CHURNS—Business is about the average for the season, and values are steady.

CLOTHES WRINGERS—Sales are slow, and prices unchanged at \$23 to \$30, as to brand.

HINGES—Unchanged and quiet, as follows: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

CUTLERY—No new phase to note, business being chiefly of a sorting-up character.

SPORTING GOODS—Demand for all lines

OIL STOVES

Something New for 1899

We would advise our customers not to place their orders for Oil Stoves till we show you our new line.

Our travellers will call on you in the near future with full particulars and prices.

**A Perfect Wonder.
Economical on Fuel.
Simple in Operation.**



**Don't contract for 1899 season
until you have seen ours.
If you want your goods quickly,
order from McClarys.**

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



No difficulty in getting Apollo galvanized iron. Stocks in all large cities, and other dimensions to order quickly.

Apollo Iron and Steel Company
Pittsburgh

**Fire Bricks and Fire Clay
Boiler Seating Blocks
Gas Retorts
Stove Linings and
Grate Backs
Portland Cements**

F. HYDE & CO.

31 Wellington street, MONTREAL

Importers and Dealers.

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,

Manufacturers of Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

limited, except for ammunition, which is moderate for season.

SKATES—Few orders coming forward, as buyers generally are well supplied.

SLEIGH BELLS—A fair trade doing in this line, but supplies are none too plentiful.

CEMENT—The market is quiet and steady. We quote ex store: English, \$2.25 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10.

FIREBRICKS—Demand fair at from \$18.50 to \$24 per 1,000, as to brand.

METALS.

In this department of the trade there has been no special feature to note. The demand has been of a very limited character, consequently the volume of business has been small, and prices generally are fairly well maintained. A good many houses are busy stocktaking now, and most of the foundries are closed down in order to make the annual repairs.

PIG IRON—The market is dull, and values are firmly held. We quote: No. 1 Hamilton \$15 to \$15.50; No. 2, \$14.75; Ferrona, \$14.75 for No. 2, and \$15.50 for No. 1, and Summerlee and equal brands, \$18.50 to \$19 ex yard.

BAR IRON—Trade is quiet, and, in a jobbing way, prices are quoted at \$1.35 to \$1.40, but for car lots lower figures have been accepted.

HOOPS AND BANDS—Dull and steady at \$1.75 to \$2.

SHEET STEEL—Firmly held, in sympathy with outside advices. We quote as follows: 14 gauge, \$2.40 per 100 lb.; 16 gauge, \$2.50 18 to 20, \$2.30; 22 to 24, \$2.45 26, \$2.55, and 28, \$2.80.

SHEET IRON—Demand quiet and prices unchanged. We quote as follows: \$2.15 on 10 to 16 gauge; \$1.90 on 18 to 20 gauge; \$2.10 on 22 to 24 gauge; \$2.20 on 26 gauge, and \$2.25 on 28 gauge.

GALVANIZED IRON—Some new business is reported for future delivery, but spot trade is slow. We quote: "Queen's Head," No. 28, \$4 to \$4.15; and "Comet," No. 28, \$3.75.

INGOT COPPER—Tone very firm, but demand limited, at 13¼ to 13½c.

SHEET COPPER—Trade slow, with no change to note. We quote: 16 oz., 16c., and 14-oz. 17c.; tinned copper, 16-oz., 18c.; 14-oz., 18½c., and planished 14-oz., 24c.

INGOT TIN—There is no change in this metal, and prices are firmly held. We quote: Straits, 20c., and Lamb and Flag, 20½c.

PIG LEAD—Feeling firm at recent advance, viz. \$3.90 to \$4.

IRON PIPE—No change to note. We quote as follows: Black pipe, ¼-inch, ¾-inch, and 1½-inch, \$2.35; ¾-inch,

Iron, Steel and Metals.

Best brands at low prices for import, to wholesale buyers only.

A. C. LESLIE & CO.

MONTREAL

THE ...
UNRIVALLED



**Brilliant
St. Antoine**

**METAL
POLISH.**

Free from acids.

Most useful for household articles, musical instruments, jewellery, harness, etc. Highly recommended by fire brigades, railway and steamship companies.

SEND FOR QUOTATIONS.

Also manufacturers of Mucilage, Ink and the famous **St. Antoine Cement** for glass and china ware.

THE VICTORIA CHEMICAL WORKS CO.
MONTREAL

ADAM HOPE & CO.

30 JOHN STREET N

Hamilton, Ont.

Importers and Dealers in

PIG TIN

We offer for sale, to arrive at New York per steamers "Indralima," "Argyle," "John Sanderson," also ex-store Toronto, Montreal and Hamilton. Market strong and active. Still higher values predicted. Write us for quotations before buying.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASCOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

\$2.80; 1-inch, \$3.85; 1 1/4-inch, \$5; 1 1/2-inch, \$6.70, and 2-inch, \$9. Galvanized, 1/2-inch, \$3.95; 3/4-inch, \$4.80; 1-inch, \$6.65; 1 1/4-inch, \$9.15; 1 1/2-inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—Quiet and steady. We quote ordinary, 7c., and composition waste, 7 1/2c., with 25 per cent. discount.

CANADA PLATE—These continue steady, but sales are slow. We quote: 52's, \$2.15 to \$2; 60's \$2.30; 75's, \$2.35; full polished, \$3; galvanized Canada plate, 52's, \$3.75.

TINPLATES—Quiet, with no new phase to note. We quote: Coke, I.C., \$2.90 to \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.25; do. I. X., \$4.10 to \$4.25; Lincoln, \$3.50; P.D. Crown, I.C., \$3.95; do. I. X., \$4.95; Bradley's, \$5.75.

TERNE PLATE—Demand slow, but firm at \$6 to \$6.25.

COIL CHAIN—Orders limited at steady prices. We quote: 1/4-inch, \$4.75 5-16, \$3.50; 3/8, \$3.15; 7-16, \$3; 1/2-inch, \$2.80, and 5/8 up, \$2.80.

SHEET ZINC—Demand quiet, but prices firm at recent advance at 7 to 7 1/4.

SOLDER—Firm and unchanged at 12 1/2 to 13c.

ANTIMONY—Sales slow at 9 1/2 to 9 3/4c.

SPELTER—No change to note. We quote as follows: Vielle Montagne at \$6 to \$6.25, and American at \$5.75 to \$6.

GLASS.

The market is quiet, but as stocks on spot are very light, the feeling is exceedingly firm, and prices are freely maintained. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The feature of this market has been the continued strong feeling in turpentine, and the prospects are that it will go considerably higher, as it is scarce and wanted. Other lines are steady and unchanged, with the usual amount of business doing for the season.

WHITE LEAD—Best brands, Government standard, \$5.62 1/2; No. 1, \$5.25; No. 2, \$4.87 1/2; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, 4 1/2c.; kegs, 4 3/4c.; No. 1, casks, 4 1/4c.; kegs, 4 1/2c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in

Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Quiet at 8 1/4 to 8 1/2c.

SEAL OIL—37 to 40c.

NAVAL STORES—Demand limited, as usual at this season, and prices steady. Resins \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4 1/2 to 5 1/2c. for colored, and 6 to 7 1/2c. for white; oakum, 5 1/2 to 6 1/2c., and cotton oakum, 9 to 11c.

PETROLEUM.

Demand continues active and prices are steady. We quote as follows: "Crown Acme," the new Sarnia oil, is selling at 15 1/2c. in small quantities; Canadian refined, 14c.; American prime white, 17c.; water white, 18c.; Pratt's astral, 19 1/2c.

ASHES.

There has been considerable weakness in this market, and prices are lowered at \$4.05 to \$4.10 for firsts, and at \$3.75 to \$3.80 for seconds per 100 lb.

HIDES.

Market quiet and unchanged: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

F. E. Walter & Co. have just received what they claim is the largest single consignment of chamois skins ever received here, and comprises all sizes and prices.

ONTARIO MARKETS.

TORONTO, Jan. 6, 1899.

HARDWARE.

MOST, if not all, the travelers are still in the warehouses, but there is a fairly good trade doing. There have been several country customers in during the week, three or four of them being from the Northwest and British Columbia. Quite a number of orders have been received this week through the medium of letters. A little cutlery has been going out and quite a few skates. Sleigh bells are a little in demand.

Wire nails are probably the most interesting feature of the trade, the market being stronger than a week ago. Barb wire is quoted 10c. per 100 lb. higher, and there is a strong feeling in regard to all wire goods. In other lines of trade there is nothing particularly new worthy of mention.

BARB WIRE—The Canadian market is firmer, with prices 10c. per 100 lb. higher.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



Force
Lift
Cistern

Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDUGALL CO., Limited

Galt, Canada.

Lockerby & McComb

Manufacturers of

WOODENWARE of all kinds
WASHBOARDS, SLEIGHS
TOY CARTS, WAGGONS
CROKINOLE GAME
"CROQUET A SPECIALTY"

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street

MONTREAL

WESTERN

Incorporated.
1851.

ASSURANCE COMPANY

Fire and Marine

Capital, subscribed	\$2,000,000.00
Capital - - -	1,000,000.00
Assets, over - -	2,320,000.00
Annual Income -	2,300,000.00

Head Office: TORONTO, ONT.

Hon. Geo. A. Cox, President. J. J. Kenny, Vice-President
C. C. Foster, Secretary.

Four-point barb wire is now quoted at \$1.90 and 2 point at \$2 per 100 lb., safety barb wire at \$2.10, and plain twist at \$2, all f.o.b. Toronto.

WIRE—The market is firm, and neither manufacturers or jobbers will quote fence wire for future delivery. There has been a little business doing in annealed wire for hay-baling purposes during the past week, although the orders were only small. A little has also been done in bright wire. The discount on oiled and annealed and annealed is 35 per cent., and on coppered wire, coppered spring and spring, 30 per cent.

WIRE NAILS—The market is stronger than it was a week ago, and the advance noted last week has become uniform, \$1.75 f.o.b. Toronto, representing the lowest quotation for carload and \$1.80 less quantities. Indeed, some wholesalers will not accept less than \$1.80 for any quantity, while orders will not be booked at any price. Prices advanced 5c. per keg in the United States last week.

CUT NAILS—Still quiet. We quote the base price at \$1.75, Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—Trade is fair. Discounts are as follows: Standard, oval head, 50 per cent. Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business is much about the same as last week, namely, fair. We quote as follows: Iron shoes, light, medium, and heavy, \$3.25; f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—A good business is still to be noted in this line. Discounts are as follows: Flat head bright, 87½ per cent.; round head bright, 80; flat head brass, 82½, and round head brass, 75 per cent. Machine screws, round head, 20 per cent.; flat head, 25 per cent.

BOLTS—The quietness noted last week still obtains. We quote: Common carriage bolts, ¼ to 5-16 inch, 70 per cent.; ditto, ¾ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 60 and 10 per cent.; coach screws, 70 and 10 per cent.; blank bolts, 60 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, 4¾c.; hexagon, 5¾c.

RIVETS AND BURRS—Still very little doing. We quote: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 45 per cent.; bifurcated,

55 Years' Experience.

WARNOCK'S Axes and Edge Tools have been on the Canadian market since 1844. They are unequalled in **QUALITY AND FINISH**. Always specify Warnock's Tools when buying.

James Warnock & Co., Galt, Ont.

Counter Railings.

A wire railing will protect your papers and promote order. Very inexpensive. Send rough sketch for price. Fine wire office blinds, lettered or plain, made to order.

THE B. GREENING WIRE CO., Limited
Hamilton, Ontario and Montreal, Que.

STANLEY'S UNIVERSAL PLANE.

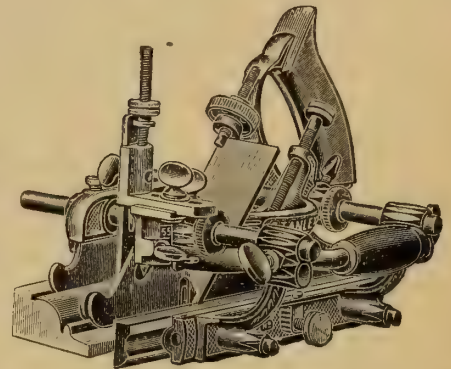
INCLUDING:

Moulding Plane, Match, Sash, Chamfer, Beading, Reeding, Fluting, Hollow, Round, Plow, Dado, Rabbet, Filletster and Slitting Plane.

No. 55. Universal Plane, \$16.00
WITH 52 CUTTERS.

The Plane is Nickel Plated; the 52 Cutters are arranged in four separate cases; and the entire outfit is packed in a neat Wooden Box.

SOLD BY ALL HARDWARE DEALERS.



with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Although the hemp market is firmer, there has been no change yet in the manufactured article, and local business is still dull. We quote as follows: Sisal, 7-16 in. and larger, 9¾c.; ¾ in., 10¼c.; ¼ and 5-16 in., 10¾c.; Manilla, 7-16 in. and larger, 10½c.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; deep sea line, 13½c. for water laid, and 14¼c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business is still fair. We quote as follows delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

CLOTHES WRINGERS—Very little doing. We quote as follows: "New Leader," "Lightning," \$30 per doz.; "Royal Canadian," with brass corners, \$29.50; "Novelty," \$26; "Royal American," \$26.

BUILDING PAPER—Not much doing. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

CUTLERY—There is still a little business being done.

CEMENT—There is nothing doing. No change. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do, \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10;

calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

METALS.

The metal market is decidedly strong, and buyers here have been notified of the withdrawal of quotations in pig iron, iron pipe, cast malleable fittings, iron and brass valves made by manufacturers in the United States. Quotations on tin, copper and solder are higher.

PIG IRON—Quotations have been withdrawn during the past week by both Canadian and United States blast furnaces. One large buyer in Toronto has been notified by two of the largest makers in the United States, that they have already booked orders to the full extent of their ensuing year's output.

BAR IRON—Scarcely anything doing. Base price \$1.45 from stock and \$1.35 from factory.

BAND IRON—Dull. We quote as follows: \$1.65 to \$1.75 per 100 lb. for Canadian and \$2 for imported.

SHEET STEEL—No improvement. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

BLACK IRON—Little or nothing doing. We quote as follows: 10 to 12 gauge, \$2.25 to \$2.40 per 100 lb.; 14 to 16 gauge, \$2.60 to \$2.70; 18 to 20 gauge, \$2.30 to \$2.40; 22 to 24 gauge, \$2.25 to \$2.35; 26 gauge, \$2.30 to \$2.40; 28 gauge, \$2.45 to \$2.55.

GALVANIZED IRON—An increasing trade for prompt shipment is reported, and a good many orders are being taken for importation. The outlook is for a good spring trade in this line. We quote as follows: Queen's Head, 16 gauge, \$3.75; 18 to 24, \$4; 26 gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3; 18 to 24, \$3.15; 26 gauge, \$3.40; 28 gauge, \$3.75. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. In "Queen's Head," less than case lots are quoted 25c. per 100 lb. higher than above figures.

INGOT COPPER—The tendency of the market is still upward, and our quotations this week are over 1c. per lb. above those of last week, 14¼ to 14½c. being the idea as to price.

PIG TIN—There was a slight reaction in price on Wednesday, in both London and New York, but, prior to that, the market made some extraordinary advances. Our quotations are 2½ to 3c. higher than a week ago, and there is a fair trade being done. We quote: Lamb and Flag, 24c.; Straits, 23½c. per lb.

PIG LEAD—There is not much doing, and, while the local market is unchanged,

the outside markets are firmer. Offerings in New York are moderate indeed. Local dealers still quote imported at 4c. per lb.

LEAD PIPE—Trade is quiet. We quote: Ordinary pipe, 7c., and composition waste, 7½c., with 25 per cent. discount.

IRON PIPE—Local importers have been notified of the withdrawal of prices by some of the manufacturers in the United States. Trade locally is quiet. We quote: Black pipe, per 100 feet, ¼ to ¾ inch, \$2.20 to \$2.30; ½ inch, \$2.30 to \$2.35; ¾ inch, \$2.80 to \$2.84; 1 inch, \$3.90 to \$3.95; 1¼ inch, \$5.14 to \$5.20; 1½ inch, \$6.75 to \$6.86; 2 inch, \$9.55. Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$6.75; 1¼ inch, \$9.15; 1½ inch, \$11.75; 2 inch, \$16.

RANGE BOILERS—A fairly good trade is being done in these. We quote as follows: Galvanized, 30 gals., \$5.25; 35 gal., \$6; 40 gal., \$7; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—Trade is quiet and without special feature. We quote: All-bright, \$2.85 to \$3; half-polished, \$2.35; all-dull, \$2.25.

TIN PLATES—A fair business is being done, and prices are firm at quotations.

COIL CHAIN—Quiet. We quote as follows: ¼ in., \$4.65; 5-16 in., \$3.75; ¾ in., \$3.25; 7-16 in., \$3.15; ½ in., \$3.10; ⅝ in., \$2.80; ¾ in., \$2.75.

SHEET ZINC—Dull. We quote 7¼c. for cask lots and 7½c. for smaller lots.

ZINC SPELTER—Prices are unsettled in the United States owing to manipulation by western concerns. Locally, the market is quiet and unchanged. We quote: 5¼ to 6c. for imported.

SOLDER—The market is firmer. We quote: Half-and-half, 13½ to 14c.; standard, 13 to 13½c.; wire, 13c.; wiping, 11½c.

PAINTS AND OILS.

Quietness has prevailed in paint and oil circles since our last report. The travelers have been busy brushing up their samples during the day, and restless at night cogitating as to which merchant they will tackle first with their irresistible blandishments, and how they are to get ahead of "the other fellow." The New Year has been entered upon without any change in the white lead situation. How long the steadiness will last, it is impossible to say, but grinders, while slow to change their figures with every slight fluctuation, may be expected to alter their quotations quickly, should the market at home warrant it. Zinc is very firm and in good demand, at higher prices. Red lead, orange mineral and litharge are steady without change. Winter stocks are gradually being reduced and with a good spring trade we shall probably see a shortage towards March, the same as prevailed last year. Varnishes, owing to the keen advance in turpentine, are worth, intrinsically, more than the ruling quotations, but the makers seem slow to take advantage of this opportunity. The demand is brisk.

Dry colors and painters' sundries are unchanged.

WHITE LEAD—Ex Toronto, pure white lead, \$5.75; No. 1, \$5.37½; No. 2, \$5.00; No. 3, \$4.62½; No. 4, \$4.25; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.75; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 6½ to 7½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 63c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

There is little doing. Prices continue firm and unchanged. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50. Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

HIDES, SKINS AND WOOL.

HIDES—The market keeps firm. There is no change in prices. We quote cow hides as follows: No. 1, 8½c.; No. 2, 7½c.; No. 3, 6½c.; cured, 9c. Steer hides are worth ½c. more.

CALFSKINS—We quote nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c.

SHEEPSKINS—No change. Sheepskins and lambskins keep firm at 80c.

WOOL—The market continues dull and weak. We quote fleece at 15c. and unwashed at 10c.

OLD MATERIAL.

There is a good general demand. Copper and brass are especially active. Heavy red scrap brass has advanced ½c. Scrap rubber has recovered ¼c. from the de-

cline noted two weeks ago. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per per lb.; bottoms, 8c.; heavy copper, 8¼ to 8½c.; light scrap brass, 4 to 4½c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, 7½c.; scrap lead, 2½ to 2¾c.; zinc, 2¼c.; scrap rubber, 3½ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c per 100 lb.

PETROLEUM.

Prices are unchanged. Demand brisk. We quote at Toronto: Canadian, 13½c.; Sarnia water white, 15c.; American water white, 16½c.; Pratt's astral, 16c., in bulk.

COAL.

There is a brisk demand. The frequently noted scarcity of cars has been most keenly felt during the past few weeks, so keenly that dealers have been able to secure only a small part of their orders, causing such a shortage of all sizes, but especially nut coal, that the price has been advanced 25c. per gross ton for all sizes, and from 22c. per net ton for grate to 24c. per net ton for egg, nut and stove sizes. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton, or \$3.79 per net ton.

MARKET NOTES.

Ingot copper and pig tin are both dearer. Coal has advanced 25c. per gross ton at Buffalo and bridges.

Heavy red scrap brass has advanced ½c.; scrap rubber is ¼c. dearer.

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

SOPHIA VANWYCK, general merchant, Cataract, Ont., has assigned to J. P. Langley, Toronto, and the estate is to be wound up.

PARTNERSHIPS FORMED AND DISSOLVED

Morel & Lacroix, carriagemakers, Kingsey, Ont., are dissolved.

J. & J. H. Parent have registered partnership as contractors under the style of J. Parent & Frere, D'Israeli, Que.

Dorken Bros. & Co., importers of hardware, Montreal, have dissolved, F. J. Dorken retiring; the business being continued by the remaining partners.

SALES MADE AND PENDING.

J. O'Neil, blacksmith, Alloa, Ont., is advertising his business for sale.

The assets of the Ottawa, Ont., Steel Range Co., are advertised for sale by auction on the 9th inst.

CHANGES.


Edmond Bellefeuille, carriagemaker, Three Rivers, Que., has been succeeded by Philippe Aubry.

FIRES.

The Toronto Rubber Shoe Mfg. Co.'s factory at Port Dalhousie, Ont., has been burned.

The main building of The W. R. Gardner Tool Co.'s works at Sherbrooke, Que., has been destroyed by fire; partially insured.

76,800 Daily Production.
5 Factories.
5 Brands
For Sale all over the world.



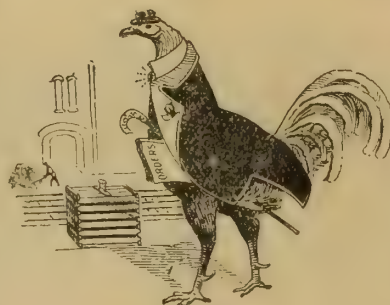
16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.
NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773

Manufacturers of **POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS.** Estimates and designs on application.

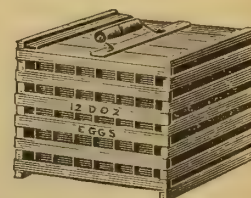
Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London E.C.—128 Hope Street, Glasgow—12 E. t Parade, Leeds, and 136 Paradise Street, Birmingham. Telegraphic Address: 'Glas,' St. Helens. Telephone No. 68 St. Helens.



Our Game Drummer.

HAS NO EQUAL

Humpty Dumpty
Egg Crates



Size, 13-in. x 13-in. x 11-in.

Contains 12 dozen eggs.

NO BROKEN EGGS.

NO MISCOUNTS.

Light, Strong, Convenient, Cheap. Will save its cost many times every season. Once used, always used.

Every Farmer needs them. By removing Fillers they are most convenient for carrying Fruit, Vegetables, etc. Much more serviceable and in the long run, much cheaper than baskets.



The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.

SEND FOR PRICES

Made Exclusively by

The DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA

SEWALL & DAY CORDAGE CO.
Established 1835.
BOSTON, MASS.

Binder Twines.



This Brand is a guarantee of the Best
Binder Twines made.

T. BURROWES ROSS

Canadian Representative,

117 Board of Trade Building,

--- **MONTREAL**

**Write
for Prices.**



No. 960-Biscuit Jar.
\$8.00, list.



No. 477-5-Piece Tea Set.
Satin, \$38.00, list. Satin B.C., \$43.00, list.



No. 477-Swing Kettle.
\$18.50, list.



No. 71-Cake Basket, embossed.
\$7.00, list.

THE Toronto Silver Plate Co.

Silversmiths and
Manufacturers of

Limited

Electro Silver Plate

A Strictly Canadian Company.
In no way connected with any

all orders 20/2/99
**Silverware Trust
Association
or Combine...**



No. 880-Candelabrum, 5-Light.
\$18.50, list.



No. 16-Six Egg Cup Stand.
Cups and Spoons Gilt.
\$13.00, list.



No. 176-Sugar, Crystal Glass.
\$5.50, list.



No. 707-Chocolate Pot,
Ebonized Handle.
\$5.00, list.

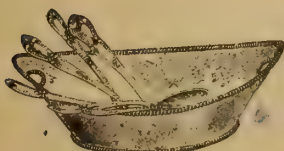


No. 1351-Waiter.

15-inch Satin Shield. \$17.00, list. 17-inch Satin Shield. \$19.00, list.
19-inch Satin Shield. \$23.00, list.



No. 14-Egg Stand Combination.
\$7.00, list.



No. 586-Spoon Basket, Gold
Lined. \$7.00, list.



No. 477-Butter Dish.
\$8.00, list.

E. G. GOODERHAM,
Manager and Sec.-Treas.

Toronto, Canada.

FACTORIES AND SALESROOMS:

BETTER ORDER NOW

Eave Troughs and Conductor Pipes

Can be had at special prices if ordered now—to be delivered when required.

We use only the best brands of Galvanized Steel Plate, and in addition to our many stock lines will make any special pattern to order.

It is cheaper to buy from us than to make them yourself—and you're always sure of perfect quality and fit.



Fig. 147.



Fig. 155



Fig. 153.



Fig. 145.

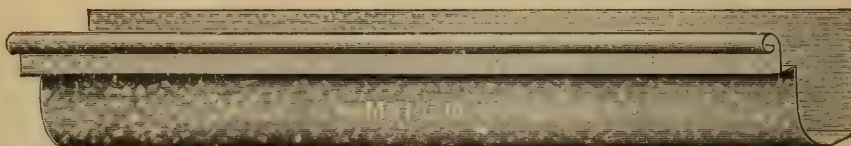


Fig. 151.

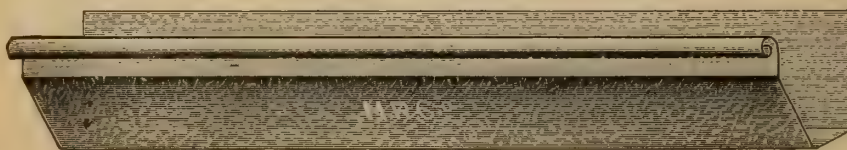


Fig. 149

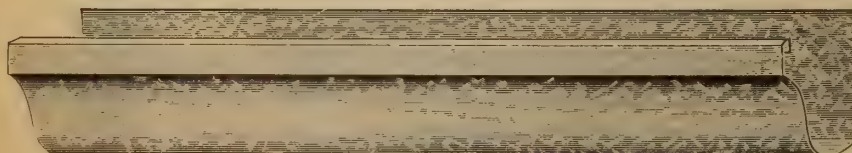


Fig. 143.

OUR . . .

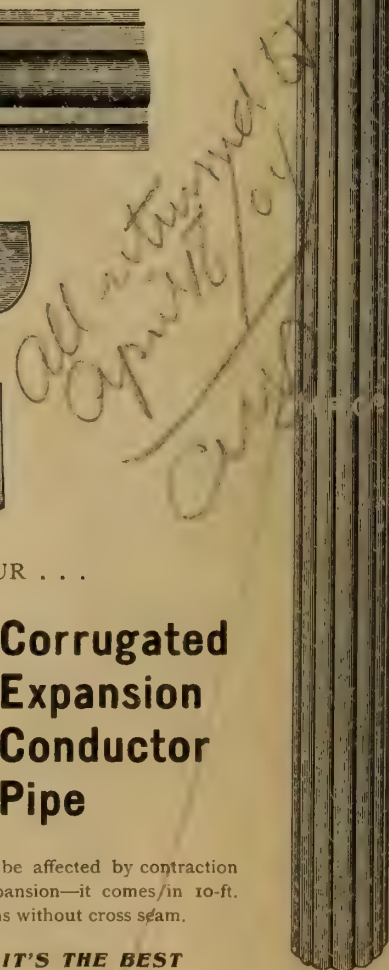
Corrugated Expansion Conductor Pipe

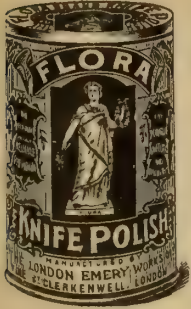
can't be affected by contraction or expansion—it comes in 10-ft. lengths without cross seam.

**IT'S THE BEST
PIPE MADE.**

Look over our Catalogue and Price List and save money by sending your order at once.

Metallic Roofing Co., Limited, 1179 King St. W., Toronto





EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



Write for Latest Catalogues and Samples to

THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

JOHN BOWMAN HARDWARE AND COAL CO.

180 to 182 York Street

LONDON, ONT.

Agents for the

Sewall & Day Cordage
Co's Celebrated

Binder Twine

The Finest Goods on the Market.

Write us for Prices.

ABOUT HORSE-NAILS:—

**"It iz better knot to no quite so mutch,
thann to no a lot, that ain't so."**

With bank and other stocks, there is an accepted standard by which comparisons are made, to judge their relative values; a bank stock is quoted at "par," or above or below par, according to its accepted value by the purchasing public.

With horse nails, as with stocks, there is also a standard of value, which has always been accorded by the hardware trade in Canada to the "C" brand made by our company. This position has been obtained solely by the undoubted merits of the horse nails sold by us under this trade mark. They represent the results of an experience of thirty-three years in the manufacture of one article; the use of the best quality Swedish charcoal nail rods; adhering to the use of the "hot forged" hammered process; designing the best patterns, which give the maximum of strength with the minimum of weight; in brief, the best—and the best only—in every particular.

When any other makers claim for their horse nails all the points of excellence which are found in our brand, and yet, judged by their own quotations, and the price at which purchasers are willing to buy them, they are found below our "C" brand standard of value, is it not because the quality of the nails are below "par"? If their goods are equal to ours, why don't they command an equal price? The conclusion is a fair one: Simply because they are not worth as much.

We sell to the trade only. Our horse nails have the "C" brand and our name in full on each box; don't accept substitutes if you want the best.

We desire to thank all our patrons for their orders received during the current year, and wish them one and all a Happy New Year.

CANADA HORSE NAIL COMPANY

MONTREAL.

MANITOBA MARKETS.

WINNIPEG, Jan. 3, 1899.

THE advance of price in barbed wire and iron pipe has not yet effected prices at this point, but it is likely there will be an advance within a week or ten days. The tendency to higher prices in the United States will, no doubt, be felt here shortly, but it is likely no radical change will be made in price lists for a few weeks.

The indications all point to a good spring trade, particularly in building hardware, and stocks are being bought with that end in view.

Retail men report that the holiday trade for fancy lamps, silverware, skates and like was exceptionally good.

Prices for the week are as follows :

Barb wire, 100 lb.	\$2 40
Plain twist	2 40
Wire and staples	2 90
Oiled annealed wire	10 2 80
"	11 2 90
"	12 2 75
"	13 2 90
"	14 3 00
"	15 3 50
Wire nails, 30 to 60 dy, keg	2 35
" 16 and 20	2 40
" 10	2 45
" 8	2 50
" 6	2 65
" 4	2 75
" 3	3 00
Cut nails, 50 and 60 dy	2 15
" 20 to 40	2 20
" 10 to 16	2 25
" 8	2 30
" 6	2 35
" 4	2 60
" 3	2 85
" 3 fine	3 15
Horse nails, 45 per cent. discount	
Horseshoes, iron, light, medium and heavy, keg	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.05 basis	
Swedish iron, \$5 basis	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 to 24 gauge	4 00
26 gauge	4 25
28 gauge	4 50
Genuine Russian, lb.	12
Imitation	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tin plate, IC charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	12 50
Canada plate, 18 x 21 and 18 x 24	3 00
Sheet zinc, cask lots, 100 lbs.	7 00
Broken lots	7 50
Pig lead, 100 lbs.	4 25
Wrought pipe, black, ¾ inch	2 50
" ¾ inch	2 75
" ¾ inch	3 00
" ¾ inch	4 00
" 1 inch	5 00
" 1 ¼ inch	7 00
" 1 ½ inch	8 50
" 2 inch	11 50
" Over 2 inch	65 p.c.
Rope, sisal, 7-16 and larger	11 00
" ¾	11 50
" ¾ and 5-16	12 00
Manilla, 7-16 and larger	12 50
" ¾	13 00
" ¾ and 5-16	13 50
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 800

Screws, flat head, iron	85 p.c.
Round	77 ½ p.c.
Flat " brass	80 p.c.
Round " "	72 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	28c.
Spades and shovels	40 p.c.
Harvest tools	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	58
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M.	16 00
American, M.	16 25
Shot, Ordinary, per 100 lbs	6 25
Chilled	6 75
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	70 and 30 p.c.
Granite ware, according to quality	50 to 60 p.c.

HARDWARE TRADE OF HALIFAX.

TAKING all things into consideration, the hardware trade of Nova Scotia and Halifax, in particular, has been fairly prosperous during the past 12 months, and the city dealers have more than held their own against outside competition. As Halifax, year by year, sends out more travelers soliciting trade in this line, it has, by degrees, gained back nearly all the business that at one time went to Montreal, and, all things being equal, Provincial buyers prefer dealing with their metropolitan city.

Trade in the early part of the year was firmer and travelers reported a better feeling all round. Although the deep fisheries, on which the the hardware dealers of Halifax depend so much for their business, did not yield returns equal to some former years, owing to the Spanish-American war, yet what with the live and canned lobster business, the more active working of the gold and other mining industries, payments were comparatively prompt and satisfactory for the first and second quarters of the year. Owing to the active demand in all countries for metals and other hardware goods, prices advanced very considerably and the trade were enabled to take advantage of the opportunity and some money should have been made.

Tin, tinplates, iron, glass and linseed oil were a few of the articles principally affected, and those who had stocks bought early must have done well. Orders for the latter half of this year came in in good shape, although individually smaller, yet report says that the gross of city business was larger than in 1897 and that less bad debts were made.

At present, the general trade of the Pro-

vince appears to be prosperous, except, perhaps, in those districts that depend altogether on agriculture. The outlook for the new year is good. People may look forward to increased development of mining, milling and the building of fishing vessels; also to a return of our lost trade with Cuba and Porto Rico, all of which affects the hardware trade. Taking things as a whole there is no reason to anticipate any decrease, but rather increased business for the year 1899.—Herald.

FOR \$1,000 I can place a 35-line advertisement, every other day for one year, in fourteen of the leading papers in the eleven largest cities in Canada.

This is merely to give an idea of how far money can go in this country.

Never have failures been fewer, never has trade been better, never has there been better prospects for the shrewd advertiser.

I know the papers best suited for different businesses, I know their rates, I am in a position to help all who want to share in Canada's prosperity. Write stating who you want to reach, and I will gladly submit list and figures.

The E. Desbarats Advertising Agency, Montreal.

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penman-ship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penman-ship, per month, \$3.00; Night School, per month \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

BELLEVILLE BUSINESS COLLEGE.

ESTABLISHED
1889.

Students have a larger earning power who acquire the following lines of preparation under our efficient system of training. It has no superior.

1. Bookkeeping,
2. Shorthand,
3. Typewriting,
4. Telegraphy, Commercial and Railway Work,
5. Civil Service Options.

Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

Address :
Belleville, Ont

J. Frith Jeffers, M.A.
Principal.

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited
BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Gal-
vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

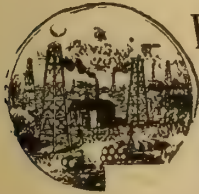
R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

PARIS ELECTRO PLATING CO.

Manufacturers of

Stove Trimmings, Piano and Organ Trimmings
Piano Stool Feet, Novelties, etc. Bicycle Work
a specialty. Special attention given to Job
Work of all kinds in Brass and Nickel Plating.

We have added a large moulding shop to our establish-
ment, and are making a specialty of fine castings.

PARIS ELECTRO PLATING CO., Paris, Ont.

Quotations gladly given.

The Portland Rolling Mills Co., Limited

Manufacturers of

Refined Bar Iron

Railway Spikes

Pressed Spikes

Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

Church's Alabastine.

To sell "Alabastine" is to be up to the hour—and the min-
ute. Progressive dealers will sell no more kalsomines or sub-
stitutes, because their customers **won't buy them**, after they
know Alabastine—the only permanent and absolutely Sanitary
Water Color Wall Coating known to science. "Alabastine"
and "Progress" are the self same thing.

Ready for use with *cold* water. Anyone can apply it.
It won't decay on the wall—won't rub off or peel. 16
beautiful tints, and white.

Profitable
leasing
ermanent

The Alabastine Co'y, Limited, Paris, Ont.

STEVENS IDEAL, NO. 44.

This is as reliable and
accurate a rifle as can be
constructed. Placed at a
moderate price to meet the
demand for such a rifle. It
is recommended without
qualification and fully guar-

anted. Made in the following styles:

.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire
cartridges, 24 inches. Weight 7½ pounds.

.25-20 Stevens C. F., .32-40 C. F., .38-55 C. F., and .44-40 (.44 W. C. F.) Standard length of barrel
for center-fire cartridges, 26 inches. Weight, 7¾ pounds.

Half-octagon barrel, oiled walnut stock and fore-arm, rifle butt, case-hardened receiver, sporting rear
and Rocky Mountain front sight.

Price, with standard length of barrel, \$13.00.

Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.

TRADE MARK.

HUTCHISON, SHURLY & DERRETT

1078 BLOOR STREET WEST, TORONTO.

Manufacturers of

Cotton, Jute, Hemp and Flax

Twines and Cordage

Mill Banding and Driving Ropes

Chalk and Fishing Lines

Seine Twine, Hammocks, Tennis

Cricket and Fly Nets

Cotton Rope and Clothes Lines

Plough Lines, etc.

HEATING AND PLUMBING

TORONTO BUILDING PERMITS.

FREQUENTLY, throughout the year 1898, mention has been made in these columns of the renewed activity in building circles in Toronto.

During every month last year, except October, the permits for the erection of buildings showed a big increase in number and value over the month corresponding in 1897.

The December figures, which are just issued, show the value of the permits issued last year to be \$76,630, as compared with \$53,400 in December, 1897, and \$11,350 in December, 1896.

There were, during the whole of last year, 562 permits issued, totalling in value to \$1,701,630, against 396 permits in 1897 with an aggregate value of \$951,130. From these figures it is noticed that there has been considerable improvement in the class of buildings erected, for, while in 1897, the average value of the permits issued was \$2,402, the average value of those issued in 1898 was \$3,026.

The permits issued during 1897 were distributed as follows :

Dwellings.....	\$363,650
Alterations to dwellings	75,355
Stores and offices	123,300
Alterations to stores	46,710
Factories	61,800
Alterations to factories.....	18,970
Warehouses and additions	71,700
Churches and additions	85,050
Charitable institutions	14,000
Stables and additions	10,995
Music hall	12,000
Alterations to fire-hall	8,000
Printing office.....	35,000
Miscellaneous.....	24,600

Total \$951,130

From this table and from the following table showing the distribution of permits in 1898, a good idea may be had of in what classes of buildings the increase is most apparent :

No. of permits.	Amount.
161 Brick dwellings.....	\$489,600
132 Brick dwellings, alterations and additions	83,585
35 Roughcast dwellings.....	29,350
53 Roughcast dwellings, alterations and additions.....	15,740
32 Stores and offices.....	115,500
51 Stores and offices, alterations and additions.....	43,230
33 Factories	267,500
25 Factories, alterations and additions..	92,665
23 Warehouses and additions.....	211,200
7 Churches and additions.....	23,600
15 Schools and additions.....	124,300
3 Colleges	57,200
7 Hotels and additions.....	54,200
2 Theatres and additions.....	27,200
2 Banks and additions	13,000
1 House of Industry addition.....	15,000
37 Stables and sheds.....	34,760
1 Hospital addition.....	4,000

Total, 1898 \$1,701,630
Total, 1897 951,130

Increase for 1898 \$750,500

The principal increases are in dwellings, for which the value of permits issued was \$618,255 this year, against \$439,005 last year; in warehouses, in which there is an increase from \$71,700 to \$234,800, and in factories, which show an increase of from \$80,770 to \$360,165, over 400 per cent.

As will be seen from the following table, the building record for 1898 is the best since 1892, the last of the "boom years" :

Year.	Amount.
1886.....	\$1,198,220
1887.....	1,276,600
1888.....	2,063,795
1889.....	2,356,174
1890.....	2,364,750
1891.....	4,388,900
1892.....	3,921,755
1893.....	1,361,850
1894.....	1,020,225
1895.....	1,346,810
1896.....	657,168
1897.....	938,619
1898.....	1,701,630

PLUMBING AND HEATING NOTES.

Thibault & Co., plumbers, Sherbrooke, Que., have dissolved.

J. R. Tooker is about opening business as plumber in Yarmouth, N.S.

Forest, Ont., defeated two by-laws relating to the establishment of an electric light plant.

Prescott, Ont., has passed a by-law to raise \$15,000 for a municipal electric light plant.

Neil McNeil, plumber, Kingston, Ont., has sold out to T. F. Phillips & Co., Ottawa.

At St. Thomas, Ont., a by-law for a municipal lighting plant was defeated on Monday.

A meeting of the creditors of John Monahan, plumber, etc., Toronto, has been called for January 10, 1899.

A building permit has been granted, in Toronto, to Miss I. McArthur, for a pair of semi-detached, two-storey and attic brick

dwellings on Howland avenue, near Barton avenue, to cost \$4,800. C. A. Hull is architect and builder.

Merritton, Ont., has passed a by-law to raise \$6,000 for the extension of the water-works system.

Sandwich, Ont., defeated a by-law to raise \$15,000 for the extension of the water-works by 48 majority.

Thorold, Ont., defeated a by-law to raise \$6,000 for the extension of the town's electric lighting system by a majority of 68.

At Port Arthur, Ont., the Jennison by-law, which is to enable the council to execute contract to pay Jennison and associates \$10,000 per annum for 40 years for 750 electric horse-power, and 250,000,000 gallons of water per annum, was carried by 175 majority. Jennison proposes to spend \$1,000,000 to build a canal from Kakabeeka falls to Port Arthur. This canal will develop 20,000 horse-power, and have a head of water at Port Arthur of 300 feet for power, light, water, and heat purposes.

PLUMBING AND HEATING CONTRACTS.

F. E. McManus, plumber, St. John, N.B., has just finished a contract for putting hot-water heating apparatus in the Mission church and for heating the new Sunday-school in connection with the Mission church, Paradise row, St. John, N.B.

The Bennett & Wright Co., Limited, Toronto, have the contract for steam heating the new factory for The Toronto Carpet Manufacturing Co., King street west, Toronto. The Webster vacuum system will be installed.

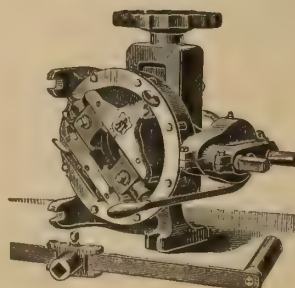
Crimp & Ritchie, plumbers, Halifax, have the contract for plumbing and heating the new residence of Judge Johnstone, at Dartmouth, N.S.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



New No. 0 Threading Machine.

THE ARMSTRONG MFG. CO.

New York Office :
139 Centre Street

Bridgeport, Conn.

ACETYLENE GAS FITTINGS

We have the largest supply in Canada on hand of

Pipe, Fittings,

For Acetylene Gas

Brackets,

Get us to quote you

Burners, Etc.

Mechanics Supply Co.

96 St. Peter Street

QUEBEC

22-24 St. James St.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS NO SCREWS
JUST BORE FOUR HOLES

AIKENHEAD HARDWARE CO.
Toronto.

T. L. Paton.

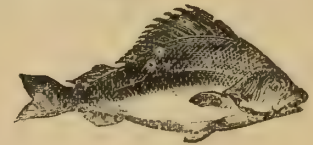
30 St. Francois Xavier St., MONTREAL.
Agent for: Spear & Jackson, Sheffield, saws, tools, etc.
H. Coghill & Sons, Newcastle, borax, etc.; Starr Mfg. Co.
Halifax N.S., skates; Atkinson Bros., Sheffield, cutlery.
Wholesale trade only.

PLUMBERS' Supplies.

We have a new line of
Bath Tub Seats at 75c.
Send post card for circular.

The **JAMES MORRISON**
Toronto. **BRASS MFG. CO., Limited**

Fishing Tackle.



TRADE MARK

ALLCOCK'S STAG BRAND

goods are the best. When you buy from us you buy from the largest makers and oldest house in England. Established 1800.

The Allcock, Lait & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

FACTS About Horse-Nails.

We never depreciate the quality of our competitors' goods.

WE DO SAY

That "Monarch" Horse-Nails are made from the best quality of Swedish stock. Are the safest to use, the best to drive, and will hold the shoes on longer and tighter than any other nail made in Canada. This is a strong statement, but testimonials from blacksmiths, which we are constantly receiving, confirm it in every particular.

A PENNY SAVED, IS A PENNY EARNED.

Two-thirds of one cent on each set of shoes is fifty cents on each box of twenty-five pounds of nails.

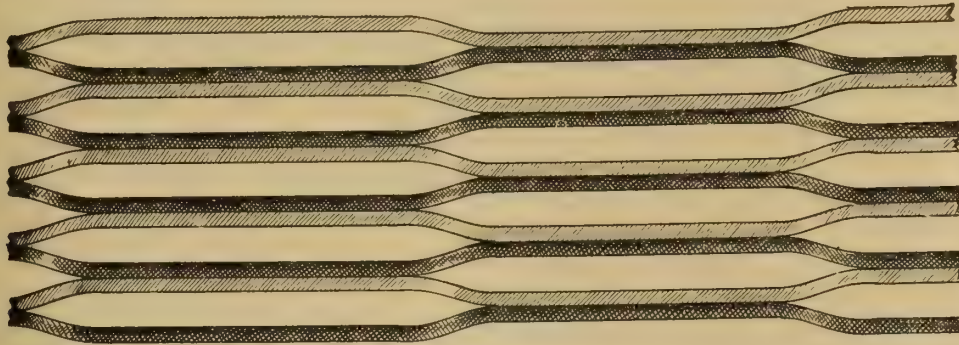
We are always pleased to quote prices and send samples, and it will pay you to write us before purchasing.

MARITIME NAIL COMPANY, Limited
ST. JOHN, N. B.

Pedlar's

Patent *** Expanded Metal Lath

A METAL LATH THAT IS
STRICTLY UP-TO-DATE.

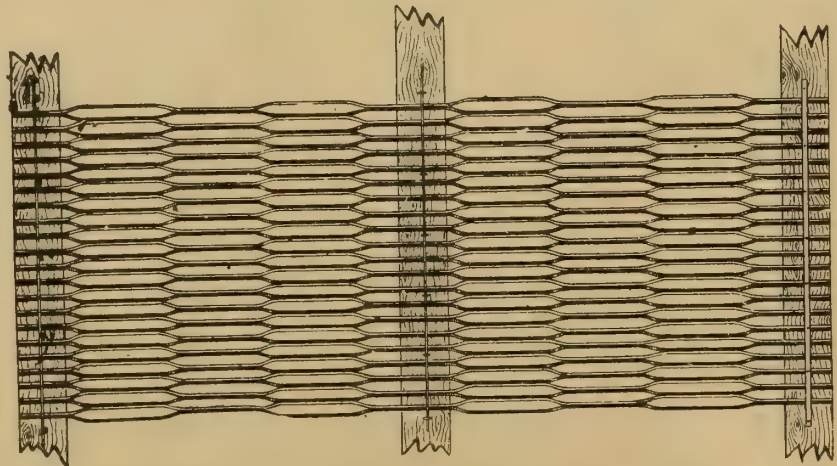


Cut shows full size of mesh.

The best Metal Lath on the market, because it is

**Cheapest
Most Practical
Easiest Applied**

Further
information
and prices
given on
request.



Cut shows various manners of applying to studs or joists.

Manufactured only by

THE PEDLAR METAL ROOFING CO.

OSHAWA - ONTARIO.

CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS.

January 6, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 24
Straits 0 23½

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 00
I.X. 6 25
I.X.X. 7 50
J. R. & Co.—
I.C. 4 75 5 00
I.X. 6 00 6 25
I.X.X. 7 25 7 50
Famous—
I.C. 5 00
I.X. 6 25
I.X.X. 7 50
Raven & Vulture Grades—
I.C., usual sizes 3 50
I.X. 4 25
I.X.X. 5 00
I.X.X.X. 5 75
D.C., 12½x17 3 00
D.X. 3 75
D.X.X. 5 75

NOTE.—Other brands might be shaded by 25c per box.
Coke Plates—Bright.
Bessemer Steel—
I.C., usual sizes 3 00
I.C., special sizes, base 3 15
20x28 6 00 6 25
Charcoal Plates—Terne.
Dean or J. G. Grade—
I.C., 20x28, 12 sheets 6 00
I.X. 7 50
I.C., Orion 6 00
I.X., Orion 7 25 7 50

Charcoal Tin Boiler Plates.
Cookley Grade—
X.X., 14x56, 50 sheet bxs } Per lb.
" 14x60, " } 0 05% 0 06
" 14x65, " }
Tinned Sheets.
22x30 up to 24 gauge 0 05% 0 06
" 26 " 0 06% 0 06½
" 28 " 0 07% 0 07½

Iron and Steel.

Common Bar, per 100 lbs 1 45
" from factory 1 35
Refined " 1 60
Horse Shoe " 1 65 1 70
Band " 1 65 1 75
Hoop " 2 00
Swedish " 4 00 4 25
Sleigh Shoe Steel " base 1 75
Tire Steel 1 75
Machinery 1 85 1 95
Cast Steel, per lb 0 10 0 14
Thos. Firth & Sons' Cast Steel 0 12 0 14
Russian Sheet, per lb 0 10% 0 11
Tank Plates, 1-5 and thicker. 2 00 2 25
Boiler Rivets 4 50 5 00

Boiler Tubes.

1½-inch 0 06% 0 06½
2 " 0 07% 0 07½
2½ " 0 09% 0 11

Steel Boiler Plate.

3-16 inch 2 00
" 1 90

¾ inch and thicker 1 75

Sheet Iron.

16 gauge and heavier 2 50 2 70
18 to 20 gauge 2 25 2 50
22 to 24 " 2 30 2 40
26 " 2 40 2 50
28 " 2 50 2 60

Canada Plates.

All dull, 52 sheets 2 25
Half polished 2 35
All bright 2 85 3 00

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$2.20 to \$2.31; ½ inch, \$2.35 to \$2.40; ¾ inch, \$2.80 to \$2.84; 1 inch, \$3.90 to \$3.95; 1½ inch, \$5.10 to \$5.20; 1½ inch, \$6.75; 2 inch, \$9.10 to \$9.55.
Galvanized ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$5.75; 1¼ inch, \$9.15; 1½ inch, \$11.75; 2 inch, \$6.00. Cast soil, 2, 3, 4 and 5 inch, 60, 10 and 5 p. c.

Galvanized Iron.

Comet. Amer. Head.
16 gauge 3 00 3 75
18 to 24 gauge 3 25 3 15 4 00
26 " 3 50 3 40 4 25
28 " 3 75 3 75 4 50

Chain.

Proof Coil, 3-16 in., per 100 lbs 25
" ¼ " " 4 65
" 5-16 " " 3 75
" ¾ " " 3 25
" 1 " " 2 85
" 1½ " " 2 75
" 2 " " 2 75
" 3 " " 2 63
Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per doz. yards 0 13 0 50
Jack chain, double, per doz. yards 0 15
Jack chain, brass, single, per doz. yards 20 10

Copper.

English B. S., ton lots 0 14 0 14½
Lake Superior 0 14½

Bolt or Bar.

Cut lengths, round, ½ to ¾ in. 0 20 0 22
" round and square 1 to 2 inches 0 19% 0 20
NOTE.—Complete, lengths about 15 feet from 18½ to 19 cents a pound.

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60 0 17 0 17½
Untinned, 14 oz., and light, 16 oz., irregular sizes 0 17 0 17½
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.

Planished and tinned, 14x48 and 14x60 0 25 0 27
Braziers. (In sheets.)
4x6 ft. 25 to 30 lbs. ea., per lb. 0 18
" 35 to 45 " 0 17½
" 50-lb. and above, " 0 17

Boiler and T. K. Pitts.

Plain Tinned, per lb 0 21
Spun, per lb. 0 25

Wire.

Pure, in coils—
From 1 to 20 gauge, 12½ p. c. off list.
From 20 gauge up, 12½ p. c. off list

Brass.

Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.
Sheets, hard-rolled, 2x4 18 0 20
Tubing, base, per lb. 0 21 0 22

Zinc Spelter.

Foreign, per lb 0 05% 0 06
Domestic " 0 04% 0 05

Zinc Sheet.

5 cwt. casks 0 07%
Part casks 0 07½

Lead.

Imported Pig, per lb 4 00
Domestic, per lb 0 03%
Bar, 1 lb 0 05
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05%
Sheets, 3 to 6 lbs., per sq. ft., by roll. 0 04% 0 05
NOTE.—Cut sheets ½ cent per lb. extra.
Pipe, by the roll, usual weights per yard, lists 7 cents per lb. and 25 per cent. discount.
NOTE.—Cut lengths, net price, waste pipe. in 8-ft. lengths, lists at 7½ cents.

Solder.

Per lb. Per lb.
Bar half-and-half 0 13% 0 14
Refined 0 13 0 13%
Wiping 0 12% 0 13

NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb 0 10 0 11
Other makes, per lb. 0 09 0 09½

White Lead.

Pure, Assoc. guarantee, ground in oil, 25 lb. irons 5 75
No. 1 do 5 37½
No. 2 do 5 00
No. 3 do 4 62½
No. 4 do 4 25
Robertson's Chemically Pure 5 75
Munro's Select Flake White 6 00
Elephant and Decorators' Pure 5 75
Brandram's B. B. Genuine 7 75
" No. 1 7 00
James genuine 6 95
" No. 1 6 45

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04%
Pure, kegs 0 04%
No. 1, casks 0 04%
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00 1 10
Robertson's Pure 1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 05
Chrome Yellow 0 11
Golden Ochre 0 05
French 0 09
Marine Black 0 09
" Green 0 09
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt 1 35 1 40
Yellow Ochre (J.F.L.S.), bbls. per cwt 2 75
Yellow Ochre (Royal), per cwt 1 10 1 15
Brussels Ochre 2 00 2 00
Venetian Red (best), per cwt. 1 80 1 90
English Oxides, per cwt. 3 00 3 25
American Oxides, per cwt. 1 75 1 80
Canadian Oxides, per cwt. 1 75 1 90

Burnt Sienna, pure, per lb. 0 10
" Umber, " 0 10
do. " 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03%
Ultra marine Blue in 28-lb. boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb. 0 04%
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

Pure, in bbls.
250 lb. casks
50 lb. drums
1 lb. packages
½ lb. "
¼ lb. "
1-lb. tins.

Sulphate of Copper.

Casks, for spraying, per lb. 0 04%
100-lb. cases, do. per lb.

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.) per gal
Carriage, No. 1 1 50
Extra do. 2 50
Body Varnish 4 50
Furniture Varnish 0 85
Extra do. 0 90
Denar Varnish 1 60
Hard Oil Finish 1 40
Orange Shellac Varnish 2 00
White Shellac 2 20
Rubbing Varnish 2 50
Polishing Varnish 2 50

Linseed Oil.

Raw, per gal. net 0 50
Boiled, per gal. net 0 53
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 65
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10%
Small lots. 0 11½

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20
Neatsfoot 90

Glue.

(In bbls.) 0 08% 0 09
Common 0 12 0 12½
French Medal 0 11 0 12
Cabinet, sheet 0 16 0 18
White, extra 0 22 0 30
Gelatin 0 16 0 18
Strip 0 19 0 20
Coopers 0 09
Al clear 0 09
Liquid Glue—F. LePage's, discount 20 to 25 per cent off list; Munn's, discount 25 to 30 per cent off list.

HARDWARE.

Ammunition.

Cartridges.
R. B. Caps, Dom., 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p. Amero.

Central Fire Cartridges, pistol sizes, Dom 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in ½ lb. bags..... 1 00
 Best thick brown or grey felt wads, in ½ lb. bags..... 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges..... 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge..... 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge..... 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges..... 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge..... 0 25
 Thin card wads in boxes of 1,000 each 8 gauge.....
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge..... Per M.
 9 and 10 gauges..... 0 60
 7 and 8 gauges..... 0 70
 5 and 6 gauges..... 0 90
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge..... 1 15
 9 and 10 gauges..... 1 40
 7 and 8 gauges..... 1 65
 5 and 6 gauges..... 1 90

Anvils.
 Per lb..... 0 10 0 12½
 Anvil and Vice combined, each..... 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen..... 13 00 20 00
 Adjustable Stearn's, each..... 4 50 6 50
 Post-hole, Vaughan's, each..... 60 90
 Excelsior, Jennings', discount 50 per cent.

Awls.
 Sewing, per gross..... 0 65 1 59
 Pegging, "..... 0 65 1 25
 Brad, "..... 0 85 1 80
 " handled, per gross..... 3 60 30
 Saddler's, per gross..... 0 45 1 60

Awl Hafts.
 Patent Peg, per gross..... } 7 25 8
 " Sewing, per gross..... }
Awl and Tool Sets.
 Millar's Falls, per doz..... 2 80 3 30

AXES.
 Splitting Axes..... 5 25 5 50
 Chopping Axes—
 Single List, per doz..... 6 00 12 00
 Double List, "..... 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Axle Grease.
 Per gross..... 6 00 13 00

Bath Tubs.
 Zinc, discount..... 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list. Boxing extra

Anti-Friction Metal.
 "Tandem" A..... per lb. 0 19
 " B..... " 0 16
 " C..... " 0 10½
 " Monarch "..... " 0 21
 " 2..... " 0 15
 " 3..... " 0 10
 " Canadian "..... " 0 08½
 Magnolia Anti-Friction Metal, per lb. 0 25
 No Name Metal..... " 0 15
 Mystic Metal..... " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's..... 5 50 8 00
 Peterboro', discount 50 per cent.

Cow.
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.

Farm.
 American, each..... 1 25 3 00

House.
 American, per..... 0 35 0 40

Bellows.
 Hand, per doz..... 3 35 4 75
 Moulders, per doz..... 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bench Stops.
 Per doz..... 5 00 6 00

Bits.
 Auger.
 Gilmour's, discount 65 and 5 per cent.
 Excelsior, discount 60 per cent.

Rockford Common, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.
 Gilmour's, 47½ to 50 per cent.

Expansive.
 Clark's 40 per cent.
 Excelsior, 10 per cent.
 Gimlet.
 Clark's, per doz..... 0 65 0 90
 Diamond, Shell, per doz..... 1 00 1 50
 Nail and Spike per gross..... 2 25 5 20

Blind Rollers.
 Annex, per doz..... 1 25 1 75
 Mascott, "..... 1 35 1 85
 Erminie, "..... 1 00 0 90

Blind and Bed Staples.
 All sizes, per lb..... 7½ 0 12

Bolts.
 Carriage, dis., 60 and 10 to 70 p.c.
 Fire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.

Boring Machines.
 Complete, with augers, each..... 5 00 7 50

Braces.
 Barber's..... 6 00 7 75
 Barber's Ratchet..... 10 00 11 00
 Farmers..... 2 00 2 75
 Millar's Falls..... 15 50 29 00

Brackets.
 Shelf.
 Japanned Canadian, per doz..... 0 50 3 40
 Berlin Bronze Canadian..... 0 85 3 20

Broilers.
 Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis., 37½ per cent.

Butchers' Cleavers.
 German, per doz..... 6 00 11 00
 American, per doz..... 12 00 20 00

Building Paper, Etc.
 Plain building, per roll..... 0 30
 Tarred lining, per roll..... 0 40
 Tarred roofing, per 100 lb..... 1 45
 Coal Tar, per barrel..... 3 75
 Pitch, per 100-lb..... 0 60

Butts.
 Brass.
 Wrought Brass, dis., 17½ p.c. revised list.

Cast Iron.
 Loose Pin, dis. 70 per cent.

Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair..... 0 40 0 65

Can Openers.
 Acme, per gross..... 9 00 10 00
 Sardine Scissors, per doz..... 3 75 4 50

Card.
 Horse, per doz..... 0 60 1 00

Carpet Stretchers.
 American, per doz..... 1 00 1 50
 Bullards, per doz..... 6 50

Carpet Sweepers.
 Bissell, per doz..... 22 50
 World, "..... 21 75
 Daisy, "..... 24 00
 Star "..... 18 00
 Crown Jewel, per doz..... 29 00
 Grand Rapids, "..... 24 00 33 00

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross..... 8 50 50

Cement.
 Canadian, Portland..... 2 50
 English..... 2 85
 Belgium..... 2 75
 Canadian hydraulic..... 1 20

Chalk.
 Carpenters Colored, per gross..... 0 45 0 75
 White lump, per cwt..... 0 60 0 65
 Red..... 0 05 0 06
 Crayon, per gross..... 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 American, dis. 75 per cent.
 Canadian, dis. 40 and 5 per cent.
 Tanged firmer, per dc..... 0 85 4 00

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock,
 Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clamps.
 Tudd's, dis. 20 per cent.
 Stearn's, per doz..... 3 00 10 00

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain..... 3 25
 embossed..... 3 50

Coffee Mills.
 Box..... 3 60 13 00
 Side..... 3 60 4 00
 Enterprise, No. 0..... 1 35
 No. 2..... 70

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 25 per cent.

Door Springs.
 Torrey's Rod, per doz..... (15 p.c.) 2 00
 Coil, per doz..... 0 88 1 60
 English per doz..... 2 00 4 00

Draw Knives.
 American, dis. 70 and 10 per cent.
 Canadian, dis. 25, 50 and 10 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz..... 16 00 51 50
 P. S. & W., dis. 40 per cent.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz..... 85 1 70

FAWCETS.
 Cork Lined, per doz..... 0 30 0 35
 Wine, per doz..... 1 30 3 25
 Star, "..... 2 80 3 90
 Penn's Corkstops, No. 2, per dozen..... 1 70
 Petroleum, per doz..... 4 50 6 50

FILES.
 Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent
 Kearney & Foote, 60 and 10 per cent to 60, 10, 10.

FLUTING MACHINES.
 Each..... 0 60 2 00

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, 10 and 5 p.c. revised list.

FREEZERS.
 Ice Cream.
 Gem from \$1.25 to \$7 net.
 White Mountain, 1 to 25 qt... 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.
 Henis', per doz..... 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's, Nos. 26 to 33, each.... 1 65 2 40

GLASS.
 Window.
 Box Price.

Size United Inches.
 Under 25..... 1 80 3 50 5 50
 26 to 40..... 1 95 3 80 6 00
 41 to 50..... 4 20 6 75
 51 to 60..... 4 50 8 00
 61 to 70..... 4 80 8 75
 71 to 80..... 5 20 9 75
 81 to 85..... 5 80 10 75
 86 to 90..... 6 80 13 00
 91 to 95..... 14 75
 96 to 100..... 16 75
 101 to 105..... 18 75
 106 to 110..... 22 75

GLUE POTS.
 Tinned, each..... 0 30
 Enamelled each..... 0 55

GRINDSTONE FIXTURES.
 Per doz..... 3 60 4 00

HALTERS.
 Rope, ¾ per gross..... 8 25 8 5
 " ½ "..... 9 25 9 50
 " ¼ "..... 11 00 11 25
 Leather, 1 in., per doz..... 3 87½ 4 00
 " 1½ in., "..... 5 15 5 25
 Web, — per doz..... 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Tack.
 Magnetic per doz..... 1 10 1 20

Sledge.
 Canadian, per lb..... 0 07½ 0 08½

Ball Pean.
 English and Can., per lb..... 0 22 25

HANDLES.
 Axe, per doz., net,..... 1 50 2 00
 Store door, per doz..... 1 00 1 50
 Chest, per doz. pairs..... 0 40 2 50

Chisel.
 Firmer, per gross..... 3 00 4 50
 Socket Firmer, per gross..... 3 25 8 00
 Socket Framing, per gross..... 3 75 5 00

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz..... 1 00 25

Plane.
 American, per gross..... 3 1

Hammer and Hatchet.
 Canadian, 45 per cent.

Cross Cut Saw.
 Canadian, per pair..... 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair... 0 40 0 50
 Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p. c.
 Light T and strap, 70 and 10 p.c.
 Heavy, per lb..... 0 03¾ 0 04¾
 Screw hook and hinge—
 6 to 12 in., per 100 lbs..... 3 15
 14 in. up, per 100 lbs..... 2 35

Per doz. set.
 Screw Eureka..... 1 13 1 80
 Gate, Clark's..... 1 50 2 20
 " Shepard's, dis. 50 to 60 per cent.

Per gro. pair.
 Spring..... 9 50
 " Shepard's Samson..... 1 20

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz..... 4 00

HOOKS.
 Cast Iron.
 Bird Cage, per doz..... 0 50 1 10
 Clothes Line, per doz..... 0 27 0 63
 Harness, per doz..... 0 72 0 88
 Hat and Coat, per gross..... 1 00 3 00
 Chandelier, per doz..... 0 50 1 00

Wrought Iron.
 Wrought Hooks and Staples, Can., dis. 47½ per cent.

Wire.
 Hat and coat, dis. 60 to 60 and 10 p.c.
 Belt, per 1,000..... 0 60 0 70
 Screw, bright, dis. 65 and 10 per cent

HORSE NAILS.
 "C" brand, 50 p.c. dis. }
 "M" brand 50 p.c. } Oval head.
 P. B., dis. 50 p.c. }
 Acadian, 50 and 20 p.c., countersunk head

HORSE SHOES.
 F.O.B. F.O.B.
 Iron Shoes. Montreal Toronto

Light, medium, and heavy.
 Snow shoes..... 3 40 3 50

Steel Shoes.
 Light, all sizes..... 3 35 3 45
 Extra light..... 4 50 4 60
 Toe weight (steel)..... 5 50 5 60

***Also Hamilton, London, Guelph, St. John. Halifax.**

ICE PICKS.
 Star, per doz..... 3 00 3 25

KETTLES.
 Brass spun, 7½ p.c. dis. off new list.
 Copper, per lb..... 0 30 35
 American, 60 and 10 to 65 and 5 p.c.

KEYS.
 Lock, Can., dis. 50 p.c.
 Cabinet, trunk, and padlock,
 Am. per gross..... 1 60

KNOBES.
 Door, japanned and N.P., per doz..... 0 90
 Bronze, Berlin, per doz..... 2 75 3 25
 Bronze Genuine, "..... 6 00 9 00
 Shutter, porcelain, F. & L. screw per gross..... 1 30 4 00

KNIVES.
 Claus, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.
 Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.
 Hay knives, spear point, L or T handle, 60 and 5 per cent.
 Lightning, per doz..... 6 50 8 40
 Heath's, \$7.75 net.

LADLES.
 Melting, per doz..... 1 70 4 50

LEMON SQUEEZERS.
 Porcelain lined, per doz..... 2 20 5 60
 Galvanized, "..... 1 87 3 85
 King, wood, "..... 2 75 2 90

ISLAND CITY Paint and Varnish Works

... Manufacturers of ...
**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

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Board of Trade, Montreal

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THE STAR HACK SAW

Has a file temper, and one 5-cent blade will do more work than \$1 worth of files. It will cut off an inch square bar of steel 100 times without filing.

THE STAR BUTCHER SAW

Will cut four times as long without filing as any other kind in use. It will cut off a half-inch rod of iron 30 times.

THE STAR BRACKET SAW

Is taking the place of all other kinds.

None of these Star Saws are to be filed, as the price is less than the cost of filing. They are taking the place of all other saws as fast as they become known.

For Sale by Most Hardware Dealers

We also make a Power Hack Saw which may be found in most machine shops and iron working establishments, and should be found in all.

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NEW YORK

CHARLES F. CLARK, President. J. CHITTENDEN, Treasurer.
ESTABLISHED 1849.

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McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

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We are the largest manufacturers of
STEEL STAMPS in Canada.

HAMILTON STAMP AND STENCIL WORKS

Send for Quotations

Hamilton, Ont.



Gives universal satisfaction. Every blade stamped with our name or trade mark we guarantee to be made of the best steel.

E. F. WALTER & CO.
MONTREAL



"BUILD TO-DAY THEN.
STRONG AND SURE
WITH A FIRM AND
AMPLE BASE."
—Longfellow

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WISH TO BUILD
an advertisement
in the
CONTRACT-
RECORD.
TORONTO
will bring you
tenders from the
best contractors

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

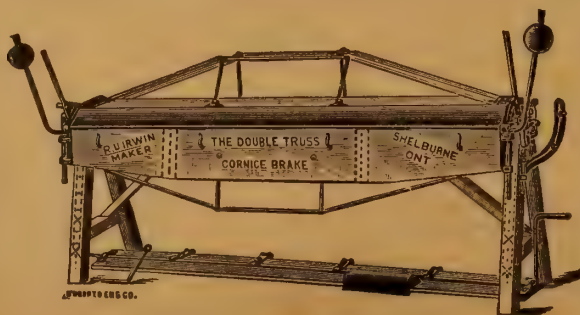
The most perfect small pistol made.



SEND FOR
CATALOGUE.

Forehand Arms Co.

Manufacturers of
the
Forehand Guns
Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. SHELBURNE, ONT.

SPORTSMEN

NOTE

THE ABBEY IMPROVED CHILLED SHOT NEWCASTLE, ENGLAND.

Is made by a NEW PROCESS, and is highly spoken of by
Sportsmen and Sporting Papers. Kills at greater distance
than Soft Shot. Gunmakers wishing repeat orders should
load with this shot.

THE OAKVILLE BASKET CO.,

Manufacturers of

1, 2, 3 Bushel

Grain

AND

Root

BASKETS

THE OAKVILLE
BASKET CO.



If you want the straightest and
most durable Rawhide Whips
in the market, order our

Napoleon and Monarch

WHIPS

Every Whip Guaranteed.

Patented and made only by . . .

HAMILTON WHIP CO.

119, 121, 123 Mary St., HAMILTON.

Cheap Whips of Every Style.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

Awarded
By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895

HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.
OF TORONTO, LIMITED.
61-63 FRONT ST. WEST, TORONTO.

Headquarters for .. Paints and Varnishes

:: WE MANUFACTURE ::

Bath Enamels.
Bicycle Enamels.
Blackboard Paint.
Boat Varnishes.
Bridge Paint.
Colors, Dry.
Colors in Oil.
Colors in Japan.
Colors in Water.
Colors, Liquid.
Copper Paint.
Carriage Top Dressing.
Dipping Paints.
Dry Colors.
Dryers, Electric.

Dryers, Patent.
Enamels.
Fillers, Dry, Paste and Liquid.
Floor Paints.
Gold Paint.
Graining Colors.
Ground Colors.
Japans, Baking.
Japans, Black.
Japans, Radiator.
Lakes.
Lacquers.
Mixed Paints.
Ochres.
Oxides.

Oil Stains.
Paint Reducers.
Priming Paints.
Putty.
Roofing Paints.
Rough Stuff.
Shade Makers' Colors.
Shellacs.
Umbers.
Varnishes, Agricultural.
Varnishes, Boat.
Varnishes, Carriage.
Varnishes, Damar.
Varnishes, Finishing.
Varnishes, Harness.

Varnishes, Leather.
Varnishes, Piano.
Varnishes, Rubbing.
Varnishes, Polishing.
Varnishes, Reed.
Varnish and Stain (combined).
Varnish Reducers.
Vermilions, Dry.
Vermilions in Oil.
White Lead.
Water Stains.
Wall Finish.
Yellows, Dry.
Yellows in Oil.

In fact, **EVERYTHING** the painter uses, from the Dry Color to the finishing coat of Varnish, therefore, we cannot be deceived by adulterations, and we know "where we are at" when we make claims for our productions.

The James Robertson Co., Limited,

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King Street West.

Toronto

TELEPHONES 819 and 1511.

Sterling Value
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JANUARY 14, 1899.

NO. 2



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

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Sheet Iron cannot be rolled absolutely uniform
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	72 x 24	30	36 in.	96 x 24	30	36 in.	
24 Gauge	12 3/4	16	19 1/4	17 1/4	21 1/2	25 3/4	lbs.
26 "	9 1/4	11 1/2	13 3/4	12 1/2	15 1/2	18 1/2	"
28 "	8	10	12	10 3/4	13 1/2	16 1/4	"

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Canada's Largest Radiator Manufacturers

THE PRIDE OF POSSESSION
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MANTELS
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Do you want to know how to use a small amount of hot water and yet keep it hot in the Bath Tub—how to save money and yet get an absolutely sanitary and very handsome Bath Tub—how to buy a Bath Tub that you can't wear out and that won't chip or crack—how to get a Bath Tub of the highest quality that is all ready to set up without further expense to you?

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Hammerless

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Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

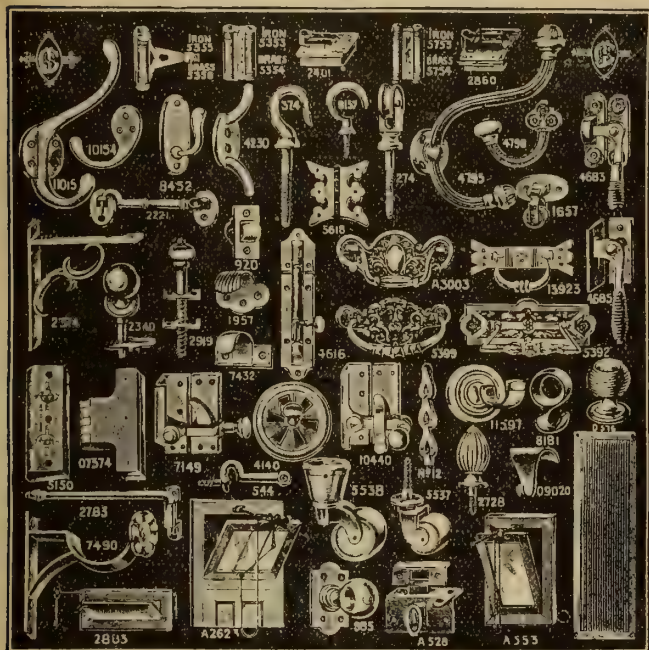
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Manufacturers of every description of

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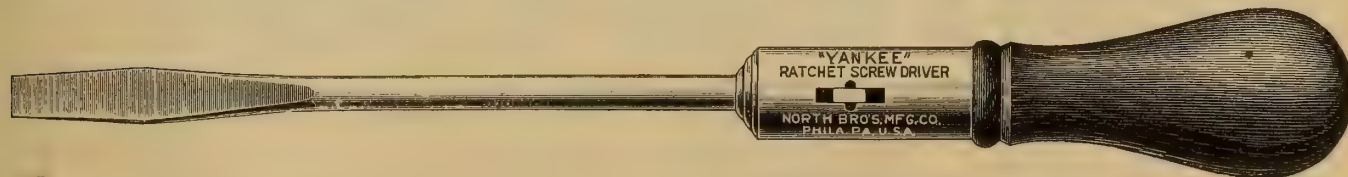


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"YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

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Seven Different Models

30-inch WHEELS

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SHELBY CYCLE MFG. CO.
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Bicycles

Twelve Models

JUVENILES

\$25.00 to \$30.00

28-inch WHEELS

\$35.00 \$40.00 \$45.00

Rambler and Ideal Bicycles make the best and most complete line for country agents to handle. Our travellers are now on the road with samples. Drop us a card, if you wish to be called on.

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No. 479—Swing Kettle.

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The paper stands
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Iron Clad Pattern.

MILK CAN TRIMMINGS



Broad Hoop Pattern.

WHY YOU SHOULD BUY OUR MILK CAN TRIMMINGS.

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Our PATENT BROAD HOOP bottom has all the advantages of three-piece bottom, but is practically two-piece. The rim of Patent Bottom is turned in over edge of bottom proper, making smooth, uniform edge, that will not tear floors of factories or waggons.

Sufficient space is left between bottom proper and rim, to allow body of can to be inserted $\frac{1}{4}$ of an inch, making permanent joint.

Bottoms are thus sweated in with half the solder.

Bottoms are concave, draining to the centre, therefore are easier to wash out.

They will not corrode like those which drain to the side.

Top bands are "SHOULDERED" and have cut-out at joint, making neater and cleaner job in half time, than with old style hoop.

All bands have retinned edges.

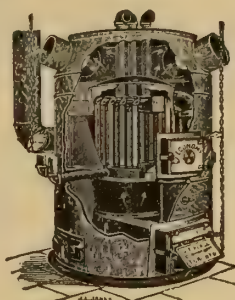
For durability, finish and economy in making up our Trimmings are unequalled.

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That are necessary in a satisfactory and efficient Heating apparatus are embodied in the

"ECONOMY" FURNACES and HEATERS



The "Economy"

Hot Water and Warm Air
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Their durability is assured beyond any question. Then, too, they are simple in construction and operation; have enormous heating capacity, and are most economical in the use of fuel. These are the points that are considered by the careful and discriminating buyer, and among such buyers our Heaters are known as "The Standard of Excellence."

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to carry in stock unknown brands of stove polish that your customers know nothing about, brands they do not call for, the quality of which is inferior, gives them dissatisfaction, and the consequent sale of which brings discredit to your store? Your best judgment answers NO! Then sell

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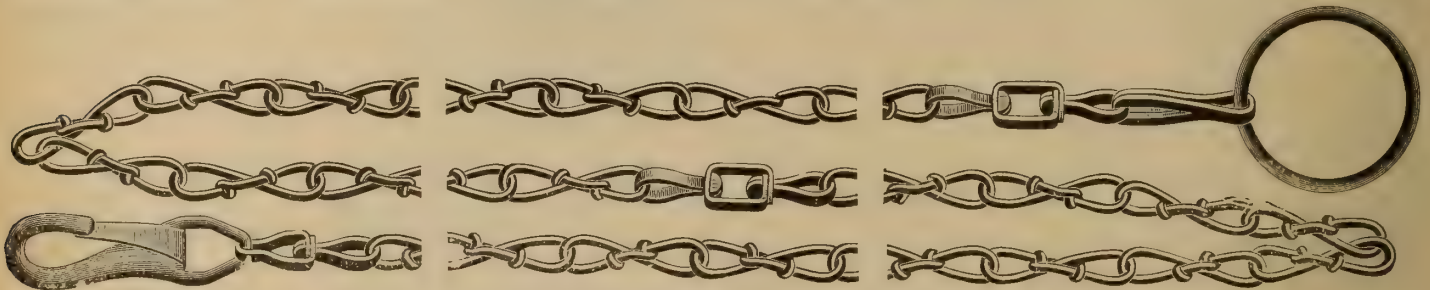
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Oneida Steel Wire Tie-Out.

For tethering cattle in fenceless pastures.
Made in all sizes. . . .



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

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MILK CAN TRIMMINGS

Kemp's Roll-rim Milk Can Bottoms.

The Roll-rim has no sharp turns; therefore, the grain of the metal is not broken, and, having a broad wearing surface on the bottom, it cannot damage floors.

It is the neatest and strongest in appearance, and is supplied with either Convex or Concave Bottoms.

Ample space is left between the bottom and the hoop for the insertion of the Body of the Can.

By examining the cut, anyone can readily see that this style of construction makes it the strongest Bottom ever produced.

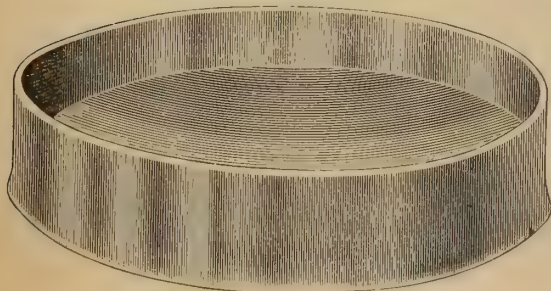
They do not cost any more than inferior Bottoms.

If you want to keep ahead of your competitors, use Kemp's Roll-rim Milk Can Bottoms.

The Iron Clad Trimmings are made the same as the Broad Hoop, and differ from them only in having a narrower and thicker hoop, which does not require the Roll-rim, and, therefore, can be sold cheaper.



BROAD HOOP PATTERN.



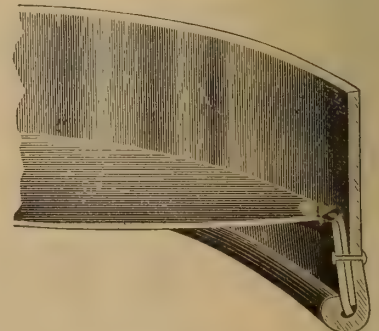
KEMP'S ROLL-RIM MILK CAN BOTTOM.

FOR

**Durability and Finish
Our Trimmings are
Unequaled.**

Tinned Iron cut to size in stock,
at right prices.

Manufactured by



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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT, IN THIS PAPER**

LOCKS DEARER IN ENGLAND.

AN ADVANCE of 5 per cent. has been made in the price of all descriptions of locks, both iron and brass, including rim, dead, mortice, night latches, pads, cabinet and even plate and pressed locks, by the Wolverhampton and Willenhall Lock Manufacturers' Association. As these bodies practically represent the lock manufacturing trade of Great Britain, the advance affects British locks, etc., generally.

The immediate cause of the advance is, of course, the rise in the iron and brass markets, but there are increases in the working expenses, which have also had their influence on prices. The recently

passed Workmen's Compensation Act, the withdrawal of discounts by colliery proprietors and coal merchants, and an advance of 3d. per ton in coke, have combined to send prices upward.

Previous to this advance there had been no change in prices since November, 1896, when an increase of 7½c. was made. At that time locksmiths' wages were advanced 10 per cent. These two changes were the only ones noted since January 1, 1890, when iron locks were advanced 10 per cent. and brass locks 7¼ per cent.

The advance is not likely to materially affect the Canadian market, as this country last year imported less than \$5,000 worth of locks from Great Britain, compared with over \$54,000 worth from the United States.

HARDWARE CLERKS AND DRAWING.

Every hardware clerk worthy of the name is ambitious to make himself as proficient as possible.

Next to a mastery of the details of business, it would be wise for the clerk to acquire, if he does not already possess it, the ability to draw, particularly articles appertaining to the hardware store.

Drawing, as someone once remarked, is writing down what you see. A start might be made by attempting to copy the articles to be found in the many catalogues with which every hardware store is equipped. Then, the articles themselves should be practised upon, drawings being taken of them from various standpoints. A few lessons from a master should be taken, if possible, for, not only will proficiency be facilitated, but a better grounding in the art will be obtained.

A REMEDY FOR CUTTING PRICES.

THE retail hardware trade would be in a much more satisfactory condition as far as prices are concerned were there a better understanding among those engaged in it.

Unprofitable business is frequently the result of a fall in values after goods have been bought, but a still more prolific cause is the cutting of prices.

Obviously, then, the remedy for unsatisfactory profits lies with the retail hardwaremen themselves.

The question, then, is as to the remedy, Where is it, and how can it be applied?

It seems to us that no better remedy can be found than a hardware dealers' association.

In an association, men who have been cutting and slashing each other's throats in business, shake hands, crack jokes with each other, and, if the organization is a live one, discuss matters appertaining to the welfare of the trade.

Now, then, whether or not there be any attempt to regulate prices, the very fact that the hardwaremen of a city, town, village, township or county, meet occasionally for one specific object, be the gathering of a business or of a social character, must tend to induce more satisfactory conditions.

Price-cutting is based on jealousy, and jealousy is often the result of the want of acquaintance of one merchant with another.

A member of a certain business men's association was once heard to remark: "Well, when you meet a fellow in the association and get acquainted with him you hate like the mischief to undersell him." That illustrates what **HARDWARE AND METAL** has time and again tried to impress upon its readers.

THE WIRE CONSOLIDATION ENLARGED.

THE American Steel and Wire Co., the great consolidation, which, it will be remembered, was last summer formed in the United States, has, within the past week, further and materially enlarged itself.

When the consolidation took place it did not include a number of important mills which it was desirous of having therein, the chief stumbling block being the price demanded for some of the plants. In one concern alone there was a difference of \$2,000,000 in the figures asked, and the maximum price which the syndicate would pay. This was the Washburn & Moen Co.'s property, for which \$8,000,000 was asked and \$6,000,000 offered.

Ever since then, however, it is evident negotiations have still been going on, for it has been within the past few days announced that another string of mills, nearly a dozen in number, has been added to the syndicates bow :

Washburn & Moen Mfg. Co., of Worcester, Mass., and Waukegan, Ill.

Worcester Wire Co., of Worcester, Mass.

Cleveland Rolling Mill Co., of Cleveland, Ohio.

New Castle Wire Nail Co., of New Castle, Pa.

Pittsburg Wire Co., of Pittsburg, Pa.

Oliver Wire Co., of Pittsburg, Pa.

Oliver & Snyder Steel Co., of Pittsburg, Pa.

Cincinnati Barbed Wire Fence Co., of Cincinnati, Ohio.

Laidlaw Bale & Tie Co., of Joliet, Ill., and Kansas City, Mo.

Consolidated Barb Wire Co., of Lawrence, Kas., and Joliet, Ill.

Newburgh Wire & Nail Co., of Newburgh, N. Y.

When the original syndicate was planned the capital stock was placed at \$87,000,000, but, on account of being unable to get all the mills designed into the consolidation, the capital named in the charter was placed at \$50,000,000.

The corporation as it stands to-day, however, with its additional mills, will have a capital of \$90,000,000, of which \$40,000,000 will be 7 per cent. accumulative preferred stock, and \$50,000,000 will be common stock.

According to a circular which has been issued by the American Steel and Wire Co., to its shareholders, a syndicate has been formed which will furnish the necessary capital for purchasing the additional properties, and, in addition thereto, to furnish the new company with a working capital of \$13,000,000, exclusive of the working

capital of the several concerns which will enter the new corporation.

Large as what may be termed the new consolidation is, it is evident the purpose is to still further increase its proportions, for the circular already referred to states that whatever may be necessary of this working capital of \$13,000,000 "may be used for the purchase of other properties which may be agreed upon hereafter, the entire amount of capital to be furnished by the syndicate being \$28,000,000."

As a result of the enlargement of the consolidated company, the price of wire and wire nails has been advanced materially. On Monday wire and wire nails advanced \$2 per ton in Cleveland, while the representatives in Canada of the syndicate have been notified that quotations on both smooth and barb wire are 25c. per 100 lb. above the figures ruling on December 22 last.

The price of barb wire for the Canadian market is now \$1.95 f.o.b. Cleveland for carload lots and \$2 for smaller quantities. Smooth wire is quoted at \$1.70 base in carlots and \$1.75 for less quantities. These quotations are for immediate acceptance, while orders for future delivery will not be accepted at all.

ADVANCE IN WIRE AND NAILS.

The Canadian market for wire and wire nails is somewhat excited, as a result of the consolidation and higher prices ruling in the United States, and local quotations are, in consequence, higher.

Barb wire, smooth wire and staples have been marked up 5 to 10c. per 100 lb., and we now quote f.o.b. Toronto as follows : Barb wire, \$2 for 4-point and \$2.05 for 2-point ; safety barb wire, \$2.10 ; plain twist, \$2.05 ; No. 9 galvanized fencing wire, \$1.75 ; No. 12 ditto, \$1.90 ; No. 13 ditto, \$2 ; staples, galvanized, \$2.25 ; ditto, bright, \$2.

The price of wire nails is also higher ; in fact, there may almost be said to be no quotations, as most of the makers have withdrawn their prices. Nails, however, can be bought at the moment at \$1.80 to \$1.90, but these figures are likely any moment to go higher.

THE BUSY MAN'S DICTIONARY.

ABILITY means "the quality, state or condition of being able," according to the dictionary. The word has reference to the active exercise of our faculties. It implies not only native vigor of mind, but that ease and promptitude of execution which arises from superior training. It always supposes something to be done and the power of doing it. It is distinguished from capacity, in that capacity is the power to acquire and retain knowledge, while ability is the power which puts knowledge into execution, makes use of knowledge acquired.

To be successful in any line of business, or, in fact, in any walk of life, a man must need have ability nowadays. Capacity is not enough, just as knowledge is not sufficient to build railways, run a business or grow grain. Ability is necessary, just as execution is indispensable.

He who would build a railway must survey the route, must set contractors at work constructing the line, and lastly, must at once secure bonuses from all sources possible.

He who grows grain must in the right season prepare his ground, and put therein his seed if he is to have a harvest. He who would conduct a business must not only have a knowledge of the business, but must put his knowledge of that business into execution.

It is not sufficient to fill one's store with goods, and sit down by the stove at the back of the store waiting for customers, as the frog sat on a stump with its mouth open waiting for a fly to come in, but one must at once commence to make it known that the store has been opened, and to have one's windows, counters and shelves so attractive that customers will be induced to come in and see.

And after one is started and has a goodly number of customers he cannot yet take possession of that chair near the stove if he would have ability associated with his name. He must be up and doing—putting into execution the knowledge which he has derived from experience and observation.

AMERICAN GALVANIZED IRON DEARER.

Importers in Canada have, this week, been notified by both mail and wire, of an advance in the price of galvanized iron of American manufacture.

The advance is equal to about 5 per cent. Local quotations have been advanced in sympathy, and the price for 28 gauge is now \$3.90 per 100 lb.

CONDITION OF THE TORONTO BOARD OF TRADE.

A FEW days hence the members of the Toronto Board of Trade will be called upon to elect officers for the ensuing year. More than ordinary judgment should be exercised. The conditions demand it.

The board has of late years become a sort of effete institution. It is true that it sometimes talks and throws its arms about, and passes resolutions. But it very seldom does anything.

The word "trade" is practically a synonym for activity. Therefore, when we think of trade we think of something being done, of something in action.

There is a possibility, however, that the Toronto Board of Trade may some of those days be recognized as a synonym having a meaning the very opposite.

Ask a member of the board what is the cause of its present comparative passiveness, and if he does not swear and say he does not know, he will probably blame some prominent official or vow that some particular influence is holding the board by the throat.

The board is not popular among business men, and even a great many of its own members are by no means in love with it.

The trouble with the board is not that it lacks among its members men of ability, the very cream of the commercial community is included in its membership.

What it wants above all else is that its members shall be inoculated with new energy and baptised with the spirit of independence.

Some of the progressive spirits of the board have doubtless become discouraged because of their failure to induce the spirit of action into the body as a whole. This is natural, but it is none the less improper.

Reforms are only won by keeping up the energy. And if those who are energetic will keep in motion, they will, eventually, attract kindred spirits, even if they fail to galvanize the passive with new life.

It is urged that the chief hindrance to forward movement of the board is the railway interests. And the experience of the past few years is certainly not of a character

that would tend to disabuse one's mind of this.

The railway interests and the commercial interests of the country should go hand-in-hand. True, they are at present one; but it is the wrong kind of oneness: The commercial interests have been swallowed by the railway interests, just as the tiger swallowed the lady.

Of course, the Toronto Board of Trade has done some protesting. But the commercial interests are still within the railway abdomen. And there they will be until the board of trade works up enough energy to lead the way out.

But it is not only the railway magnate that exerts his sway over the Toronto Board of Trade; the politician is not without his influence in the same body.

The board meets and passes resolutions calling upon the Government for certain reforms or remedies. But of what effect are these resolutions? Most times none at all.

Be the Government of Conservative or of Reform complexion, it is well aware, that while in business matters they may protest as their conscience dictates, the members of the board, as a rule, vote as their political conscience dictates.

Mr. E. Kemp is likely to be the president during the next term. As first vice-president he has proved himself to be an energetic officer, while the rapid development of his own business has shown him to be a business man of more than ordinary ability. If he puts these qualities into operation, should he be the next president, we may expect the Toronto Board of Trade to become of some value to the commercial interests of the "Queen City" in particular and of the Dominion in general.

A CONFERENCE OF HARDWARE JOBBERS.

A CONFERENCE of hardware jobbers was held in Montreal early in the week. The gathering was a fairly representative one, there being a good attendance of Montreal, Toronto, Hamilton, and London wholesale men.

The objects of the meeting were to consider ways and means for a better understanding among the jobbers and between

the manufacturers and jobbers in regard to matters affecting the trade.

The daily papers have printed sensational reports to the effect that the purpose of the meeting was to boycott manufacturers who sold direct to retailers. **HARDWARE AND METAL** is informed that this was not only not the purpose of the meeting, but that no such proposition was ever mooted. Neither is it proposed to regulate prices.

As far as the establishing of a better feeling among the jobbers is concerned, the gathering at least partially accomplished that, if the remarks of those who were present are any criterion.

The Montreal hardwaremen treated their confreres from the west most cordially, entertaining them at places of amusement and banqueting them.

It is possible that a permanent organization may arise out of the gathering.

DROPS FROM THE EDITOR'S PEN.

Latter-day clerks should be up-to-date clerks.

Quality in goods produces quantity in business.

Mistakes are more the want of thought than the want of brains.

Those who think twice before they speak are saved much humiliation.

Have the courage of your convictions whether you lose dollars or sleep

He who makes and keeps a good resolution, has strength as well as good intentions.

He who has not the courage to strike out for himself will never have an individuality in business.

There is one thing about la grippe. It is no respecter of persons, and that hides a multitude of sins.

Criticism is cheap, and that is possibly the reason why some people get angry when it is offered them.

When a man has not brains enough to entitle him to municipal honors, he seeks the influence of the lodge to elect him.

The difference between a dude and a well-dressed window is this: The one dresses to be admired, and the other is dressed to sell, as well as to be admired.

THE MINES OF BRITISH COLUMBIA.

(From The Economist, London, Eng.)

A FAIRLY comprehensive inspection of the leading mining districts of British Columbia—that is to say, of Rossland, Nelson and the Slocan, together with an odd mine here and there—has fully convinced me that the country may be included amongst the great mineralized areas of the world.

I refer, of course, principally to the Kootenay district, throughout large areas of which gold, silver, lead and copper, either by themselves or in association, are found in great, though not necessarily payable, quantities. The rich mineral area continues south over the United States border into the State of Washington, where a number of remarkable discoveries, principally of gold, have been recently made, and it is quite probable that, progressing equally with the adjacent Kootenay district, the State of Washington may become the headquarters of gold mining in the United States. Kootenay, a district of fir-clad mountain chains, on the sides or peaks of which the mines are poised, and of narrow deep blue lakes, has been, and is being, wonderfully well opened up by railways and steamers. Next year will witness the advent of the railway to several important districts at present lying stagnant, owing to want of transport facilities, while the benefits already derived from the now existing railways are incalculable. The outlook for the country for the next two or three years is, indeed, a bright one.

But there is much to be said, especially in an English financial paper, to detract from this theoretically pleasing outlook. In the abstract, the country certainly has a great future before it as a mineral producer, but how that future is in practice going to benefit the English financial or mining world is, to the writer, somewhat of a mystery.

To begin with, the great majority of the mines and prospects in the country are owned and entirely controlled by Canadian and American shareholders. However prosperous, therefore, the mining industry here, English capital will never benefit to the same extent as it did in South Africa or West Australia or India. This important fact greatly detracts from the interest in the country and its development which English mining people and investors would otherwise take, and equally acts as a check against the financing of sound British Columbian exploration and finance companies, and in general the spending of money in miscellaneous ventures. Again, the English floated British Columbian companies to date are a poor selection.

Take first the long list of exploration and finance companies. These, many of them

floated with large cash working capitals, have been almost uniformly unsuccessful. The only two which the writer could hear of as having acquired some valuable assets are the British America Corporation and the London and British Columbia Goldfields, both of which will be fully dealt with in due time.

Then, again, individual mines floated in London; what is their record?

The Hall Mines, floated some years ago, paid a dividend or two, and is now shut down. The Athabasca and Ymir, two promising mines recently floated, are absurdly over capitalized. The group of hydraulic worked placer mines in Cariboo and Lillooet—Golden River Quesnelle, Cariboo, Lillooet Fraser and Cariboo, New Fraser River, Fraser River Consolidated, and Big Valley Creek—all are disappointments. Equally disappointing are such mines as the Tangier, Waverley, Duncan and Galena mines; in fact, there are hardly any London floated British Columbia companies which have been successful, and it can be but poor consolation to the shareholders in these failures to know that, on the whole, the prospects for the country are very promising.

Several other unfavorable features in connection with British Columbia mines remain to be noticed. The population, as is usual with a new mining country, has an exceedingly hazy and exaggerated view of the value of any given mine or district. These hazy utterances and opinions find their way by the hundred into the local press, where they are again magnified and written up out of all recognition. From here all this rubbish finds its way to England, where it no doubt does a lot of harm, and the actual facts about the country and the mines are totally lost sight of. Even the local papers that profess to be of a semi-official nature, and devoted entirely to mining, fill half their columns, issue after issue, with pure hearsay and irresponsible gossip. The American methods of share speculation in vogue in British Columbia do not tend to introduce financial soundness. The absurd tendency to capitalize the least prospect with a capital of 1,000,000 \$1 shares gives everyone an exaggerated idea of true mining values; so much so, that many of the more soundly-balanced engineers representing exploration and mining corporations advised their companies to have nothing to do with the country until people there have come to their financial senses.

Another serious drawback to the prosperity of the industry is the highly refractory nature of many of the ores. The metallur-

gical and chemical study of their treatment is extremely primitive as yet, and offers splendid chances to the chemist and metallurgist. The only solution of the difficulties so far has been to smelt the ores. The process, as now organized, is extremely costly, and the mining companies are, in addition, mulcted by the smelters in a dozen unnecessary ways.

THE VARIOUS MINING DISTRICTS.

A summary of the different mining districts in British Columbia is as follows:

In the northern districts of Lillooet, Cassiar and Cariboo practically no reef mining has been undertaken as yet. There are, however, a number of hydraulic sluicing mines in different localities, most of which are owned locally. The English floated hydraulic mines in these districts comprise the Golden River Quesnelle, Cariboo, Lillooet Fraser and Cariboo, Big Valley Creek, New Fraser River and Fraser River Consolidated. These mines have practically all been unsuccessful, and it may be accepted as a safe axiom not to invest in hydraulic or alluvial mines of any sort in this country. No doubt there is plenty of alluvial and placer gold to be found, but it lends itself more to the operations of private individuals than to those of a limited company. The district of Yale, immediately west of Kootenay, will probably become an important mining centre; at present all development there is at a standstill, on account of lack of roads and railways. A branch is now being laid to the Boundary Creek district in Yale, which will be completed next year. Many people consider that Boundary Creek will become the most important mining district in British Columbia. A great deal of ground is held here, and the advent of the railway next year will introduce great activity in development. Dotted along the coast, in the district of New Westminster, and on Vancouver Island and other small islands, there are here and there small mining camps, although no deposit of permanent value has yet been found in any of them. The last and most important district is, of course, Kootenay. In East Kootenay there are signs that all the minerals exist, and several mines have been

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developed to a small extent, but here, as in Yale, the district is awaiting railways. The Canadian Pacific Railway is building a branch from the east over the Crow's Nest Pass, in the Rocky Mountains, which next year will largely open up the East Kootenay district, and at the same time will admit of the excellent coal found near Crow's Nest being made into coke, and furnished at a greatly reduced price to that now ruling to the smelters in West Kootenay. In West Kootenay the principal districts are: Rossland, producing gold and gold and copper ores; Nelson, producing gold and silver and silver and copper ores, and the Slocan, producing silver lead ores. These districts are excellently served by railways and lake steamers, while new branch lines are continually being built. Further north in the Pront Lake district, stagnant till a railway penetrates it, which will probably be next year. This, then, is a rough summary of the mining districts of British Columbia at present, but it is more than likely that in a few years the whole of the northern part of West Kootenay, and perhaps Yale, will be one large and important mining centre.

THE BRITISH AMERICA CORPORATION AND
THE LE ROI MINE.

In my previous article I mentioned the fact that of the numerous exploration and finance companies floated in connection with British Columbia, the British America Corporation and the London and British Columbia Goldfields appear to be the only ones which have acquired assets of any real value.

The British America Corporation, floated a year ago with a working capital of £1,000,000, appears to have been conducted in that extravagant manner peculiar to the big London company promoters, who understand more about market manipulation than they do about even the rudiments of mining or finance. The trump card held by the corporation was the controlling interest in the Le Roi Mine, one of the great mines of the world. The directors of the British America Corporation, knowing that it was imperative to the success of their company to secure the remaining Le Roi shares, knowing, also, that the acquisition of these was only a question of negotiation, and knowing, moreover, from their experience that the Le Roi was vastly improving month by month, and as depth was attained, neglected the very rudiments of finance, and showed the utmost folly in allowing the money necessary for this most important and inevitable purchase to drift through their fingers. How it disappeared they probably do not know themselves. One property after another, showing indifferent prospects, was secured at a good round price. Work was started on six or eight of

these, and others acquired at the flotation of the corporation. A magnificent suite of offices was erected—half the population of Rossland was secured to act in some capacity or other on the staff of the corporation. The managing-director gave several newspaper interviews a day, and columns of all the papers were devoted to eulogies of the company, its extravagance and fatuousness being glossed over.

Now, what is the result? In the last month or two the corporation has had to considerably restrict its operations for want of cash; on the head of that the negotiations for the purchase of the remaining Le Roi shares were completed, and reveal the fact that the corporation can only pay \$1 a share in cash, the rest being paid by bills. The debt must now be very considerable, severely depreciating the value of the shares, and yet the fact remains that had the management possessed the least knowledge of mining or finance there need have been no debt.

Now, as to the assets possessed by the company. It must be frankly admitted that the possession of the Le Roi mine, or at least of 480,000 out of the 500,000 shares, is an asset of extreme value. When I visited the mines I was greatly surprised at the great width and value of the reef in the

lowest workings, at the large quantity of high-grade ore blocked out, and at the immense reserves of low grade, but nevertheless payable ore, in the mine. If the British America Corporation will be content to concentrate its energies on this mine, to pay off the debt it has incurred in its purchase, and to run it on scientific lines, I am convinced that before long the Le Roi will be found to be worth the whole capital valuation at par of the British America Corporation. Of the corporation's other assets one cannot speak with much certainty. Until its debt is paid off all expenses on the eight or ten properties being developed should cease. I would make an exception in the case of the Columbia and Kootenay mine. This property, two miles from Rossland, has a reef 40 feet thick, proved already for 1,500 feet in length and 400 feet in depth. Usually the ore is very low grade, but in several places, recently, patches of high-grade ore of considerable area have been met with. On a reef of such great width a few of these patches, especially if found to continue in depth, would soon make the basis of a fine mine. This mine then should be pushed on, but, failing funds, such properties as the No. 1 Josie, Nickel Plate, etc., should be closed down. Several of these are promising prospects, but not assured successes,



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and the corporation is not justified in running into greater debt on their account. The technical staff of the British America Corporation is sound, I consider, but showed supineness in not protesting against the extravagance of the management.

THE LONDON AND BRITISH COLUMBIA
GOLDFIELDS, LIMITED.

The London and British Columbia Goldfields Company have secured three assets of considerable value. These are:

(a) The controlling interest in the Ymir gold mine. This is a genuinely good mine. Low-grade, but a wide reef, and with 120,000 tons in sight. A profit of 15s. a ton, or, say, £20,000 a year, should be available for dividend.

(b) A controlling interest in the White-water (silver-lead) mines. This mine has a good deal of galena ore in sight, and will restart to work almost immediately. The life of the mine will probably not be a long one, but, as the profits will be good, the shares may be valued intrinsically at par.

(c) A third interest in the Ruth (silver-lead) mine. This mine has been making profits for some time, and will, no doubt, continue to do so for some years to come. On the whole, London and British Columbia Goldfields shares, considering that these three assets will all be producing profits during next year, are, I consider, an excellent speculation at present prices.

NEW HARDWARE PREMISES.

A representative of HARDWARE AND METAL was shown over Mr. O. B. Henry's new hardware premises, Drayton, the other day. This store, which is one of the largest in western Ontario, was designed with an eye to the beautiful, while possessing the most up-to-date essentials and conveniences. The shelving and suite of offices are finished in quartered oak. The oils, varnishes, etc., are conveyed from second floor in 1¼-inch pipes. The iron and stock house, which is separated from the store, is fitted with modern methods for handling such heavy goods.

VICTORY FOR THE IVER JOHNSON COMPANY.

One of the most remarkable of patent law suits was decided the other day when the judge of the Court of Appeals gave his verdict in favor of The Iver Johnson Arms and Cycle Works in the Lovell vs Johnson case.

This has been in the courts for several years, and has been stubbornly contested, the highest and best known legal authorities having been engaged in same.

The Iver Johnson people have reason to be proud of this decision, after a hard fight.

HARDWOOD PACKING BOXES.

It seems paradoxical to state that there is a possibility of pine packing boxes being superseded by hardwood boxes because of the lighter weight of the latter, but such is the case. It has been found that, especially beech, birch and maple, cut into thin veneers, and cemented together three-ply, the thickness of the whole about 5-16ths of an inch, make superior packing cases for carrying all kinds of heavy and light merchandise.

This veneer box is waterproof for all practical purposes, it is less bulky, more durable and much lighter than the 1-inch pine packing case now in use. By this reduction of weight the saving in freight and express charges over long distances, it is claimed, will give the shipper his packing case free of cost, which is a consideration in the expense account not to be overlooked.

The advent of this style of packing box will be beneficial to Canada in two ways, for, besides its advantages to the merchant using it, their use may appreciate the value of the great hardwood forests within our borders, and may stay the "passing" of the white pine, 40 per cent. of which, it is claimed, finds its way into packing boxes.

An English company has already commenced the manufacture of these boxes in Toronto. Another English company is erecting a factory in the easterly section of New Brunswick, where hard woods abound close to the seaboard, from whence shipments to England, the great user of packing cases, can be economically made by water the year round. Here the veneer is manufactured, cut into sizes, and shipped to the London factory, where the cases are put together and distributed.

CATALOGUES, BOOKLETS, ETC.

A PRETTY DESK CALENDAR.

The Thomas Davidson Manufacturing Company is mailing its friends a pretty little tin desk calendar with an original design reproduced in several colors. It is practically indestructible and readers of HARDWARE AND METAL who do not receive one within the next few days should drop the company a card asking for one.

GET ONE.

The Dry Goods Review mentions that Glover & Brais, of Montreal, are distributing a very handsome calendar, containing a colored reproduction of the famous "What we have we'll hold" picture and a view of Montreal from the mountain. It is said to be one of the handsomest calendars ever issued in Canada. Glover & Brais will send one to any firm who write asking for it and mentioning the above paper.

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Special Notice.

On the 1st of February our travellers will have complete lists and special prices on all goods which we have now in the warehouse of Samuel, Benjamin & Co., 30 Front St. West. The prices will be very low, as we want to clear out the entire lot quickly.

This is an opportunity for the trade to secure some goods at very low prices for the Spring business.

Orders will be filled as received, and to the extent of the stock only.

Kindly reserve your Spring Orders, it will pay you to wait for our travellers.

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AN EARLY CLOSING MOVEMENT.

AT the last meeting of The Retail Grocers' Association, of Toronto, it was decided to inaugurate another early closing agitation.

It is not the purpose to confine the movement to retail grocers alone, but to solicit the cooperation of hardwaremen, dry goods dealers, and all other merchants. With these all interested, the idea is to secure the adoption of the early closing by-law, which the Ontario Legislature, a dozen years ago, empowered municipalities to pass.

This is not the first time there has been a movement in Toronto to introduce the early closing by-law. Eleven years ago, a movement was inaugurated by The Retail Grocers' Association for the application of the by-law to the grocery trade. The necessary signatures were secured and presented to the city council, and that body forthwith passed and put into operation the by-law.

But the by-law was destined to be short-lived. No sooner was it in operation than a cry went up against it, for those who were desirous of observing it found that those who refused to do so were not interfered with.

The by-law was consequently paralyzed at its birth, and at the very next meeting of the council it was buried.

One of the weak spots in the by-law which was, eleven years ago, in operation for a few weeks, was, that provision and confectionery dealers were not included in its operation, and as many of these sold certain goods appertaining to the grocery trade this naturally gave offence.

If the present movement to rehabilitate the early closing by-law is to be effective, it is obvious that its application should extend to at least the provision dealer. Any attempt to gain the cooperation of the confectioners will probably be abortive.

But, if the grocers cannot secure the cooperation of the other branches of trade, why should they not, independent of the by-law, have an understanding among themselves in regard to early closing?

There are individual merchants who, for some years, have closed their stores at six, seven, or eight o'clock, without even consulting their neighbor, and their measure of prosperity has not decreased, while life has been a little more worth living.—The Canadian Grocer.

FIRE LOSSES IN 1898.

During the month of December, the fire losses throughout Canada and the United States amounted to \$12,712,100. The largest of the month was the Greenshields fire, in Montreal, the loss of which was placed at \$1,116,000.

During the whole year, the loss from fire in these countries is placed at \$119,650,500,

against \$110,319,650 in 1897, and \$115,655,500 in 1896. The greatest loss of the year was the Westminster, B.C., conflagration, which was placed at \$2,500,000.

There were five other fires which caused a loss of \$1,000,000 or over. These were a cold storage plant and other buildings at Pittsburg, Pa., a grain elevator and other buildings at Chicago, Ill., hotel and stores at San Francisco, Cal., various buildings at Prescott, Ariz., and the Greenshields fire, Montreal.

PEOPLE WITH GOOD MANNERS.

IT was fortunate for Napoleon that he married Josephine before he was made commander-in-chief of the armies of Italy. Her fascinating manners and her wonderful powers of persuasion were more influential than the loyalty of any dozen men in France in attaching to him the adherents who would promote his interests. Josephine was to the drawing-room and the salon what Napoleon was to the field—a pre-eminent leader. The secret of her personality that made her Empress not only of the hearts of the Frenchmen, but also of the nations her husband conquered, has been beautifully told by herself. "There is only one occasion," she said to an intimate friend, "in which I would voluntarily use the words 'I will!'—namely, when I would say, 'I will that all around me be happy.'"

When Catherine of Russia gave receptions to her nobles, she published the following rules of etiquette: "Gentlemen will not get drunk before the feast is ended. Noblemen are forbidden to strike their wives in company. Ladies of the court must not wash out their mouths in the drinking-glasses, or wipe their faces on the damask, or pick their teeth with forks." But today the nobles of Russia have no superiors in manners.

Etiquette originally meant the ticket or tag tied to a bag to indicate its contents. If a bag had this ticket it was not examined. From this the word passed to cards upon which were printed certain rules to be observed by guests. These rules were "the ticket," or the etiquette. To be "the ticket," or, as it was sometimes expressed, to act or talk by the card, became the thing with the better class.

A fine manner more than compensates for all the defects of nature. The most fascinating person is always the one of most winning manners, not the one of greatest physical beauty. The Greeks thought beauty was a proof of the peculiar favor of the gods, and considered that beauty only worth adorning and transmitting which was unmarred by outward manifestations of hard and haughty feeling. According to their ideal, beauty must be the expression of attractive qualities within—such as cheerfulness, benignity, contentment, charity, and love.—Pushing to the Front.

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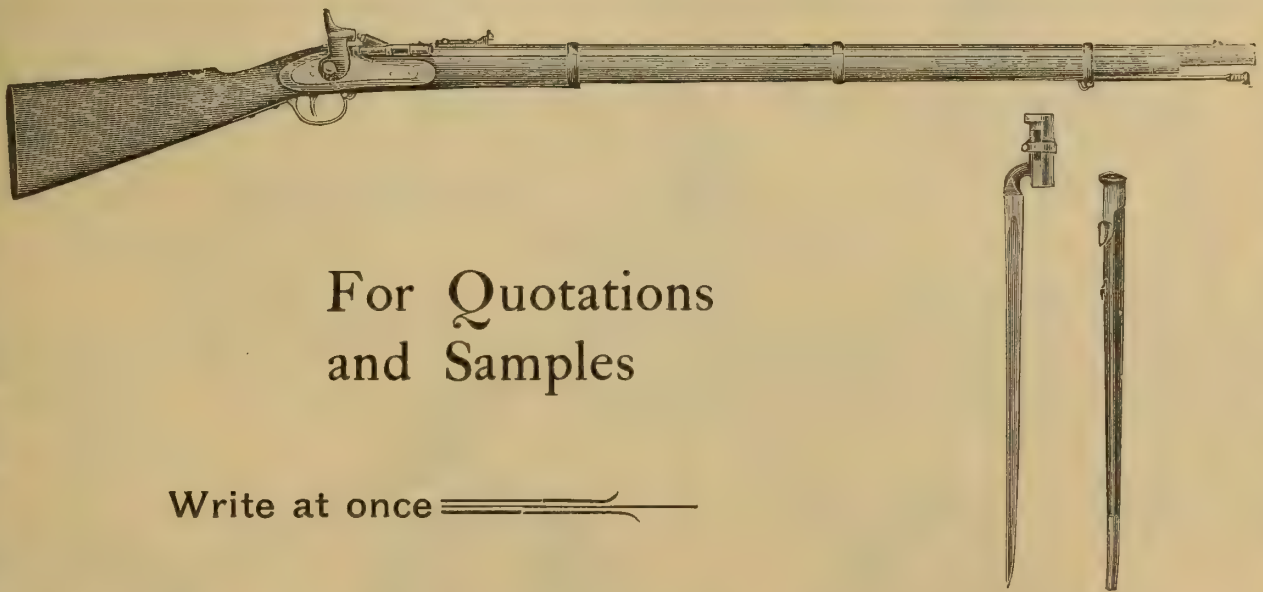
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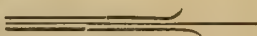
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OUR INTERESTS NEGLECTED.

THE Canadian Grocer has been urging for years the necessity of a commercial representative for Canada in London, and the appointment of Canadians to fill all vacancies in the Canadian Government offices there. Chances to turn trade into Canadian channels, amounting to hundreds of thousands of dollars annually, are neglected.

Any wide-awake business man visiting England will verify this. Lord Strathcona verified it in an interview a few days ago, when he said :

There are also great possibilities of developing a profitable trade in fruit pulp, produced from the crushing of small fruits, such as raspberries, used extensively in the manufacture of jams, which is a large industry in Great Britain. The demand for this article is enormous, and there is no doubt that Canadians would find a market, at profitable prices, for all they could produce. The normal price of raspberry pulp is from £18 to £21 sterling per ton, and it has risen as high as £30 per ton. The annual crop of wild raspberries in Canada is so large that much of it goes to waste for lack of profitable uses to which it may be put.

But the fruit pulp trade, if cultivated, offers an outlet which must yield handsome returns. Some enterprising

canners have already gone into the trade, and, at 36s. per case of 12-gallon tins, it has been found a paying proposition. The Canadian product has been pronounced, by British jam makers, to be of excellent quality, flavor and color.

This is a subject to which attention was first directed by The Canadian Grocer. The managing-editor found, at Manchester, a large importer of raspberries, who had been told, in the Canadian offices in London, that he could not get raspberries in Canada. They looked up statistics for him and found that Canada imported the jam, hence they inferred she could not grow raspberries.

The Grocer published the facts, and, last year, acting on the information, one canned goods packer, as was stated at the time, rented a building and put up considerable quantities in Montreal, for which he found a ready sale in England. A canned goods packer in Western Ontario has also sent forward a quantity. This is only one of a number of cases in which Canada suffers through the neglect of the Government to appoint the right men, or the ignorance of those who are supposed to do the work. —The Canadian Grocer.

A DRUMMER'S TALE.

"I was traveling through the mountains of West Virginia last week," said a drummer to a reporter, "and, driving up to a store, I opened up conversation with the merchant, on politics, before introducing any goods.

"What do you think of this expansion fever?" I asked.

"Wall, now, I sure am glad yo' axed me about thet thing. Mebbe yo' can give me some points. Do yo' all hev it in Washington?"

"Oh, yes, we have it bad," I replied, wondering what the man meant.

"Wall, we hain't got but one case. Thet's my wife. Thar ain't no doctor 'ceptin' a hoss doctor hyar, an' he 'lowed it might be dropsy. But her fut has expanded tell thar ain't room for much else under the table, and' I'm pow'ful glad yo' all know somethin' 'bout it. Do yo' all know any cure fer it?"

"When I explained what I meant he was so angry that I could not have sold him gold dollars for 50 cents each."



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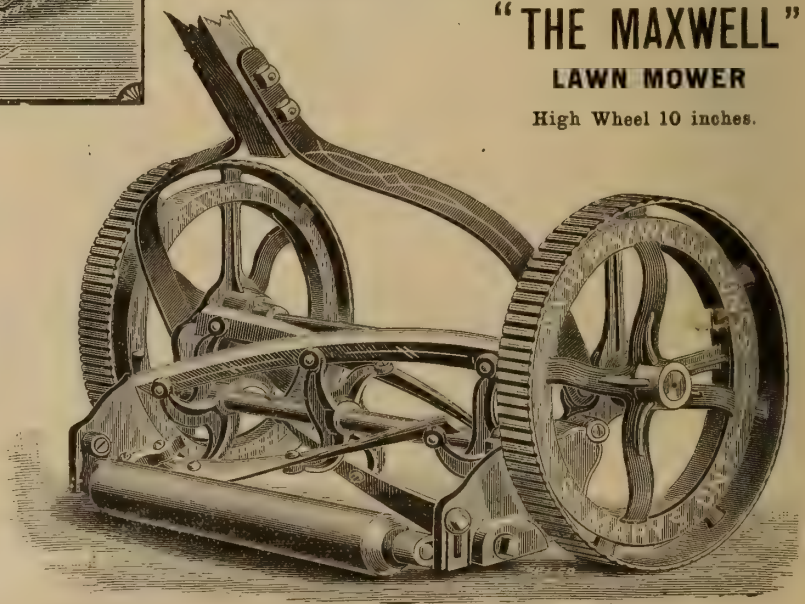
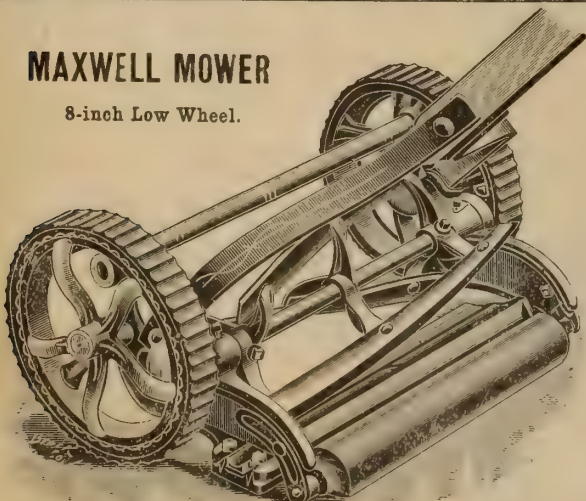
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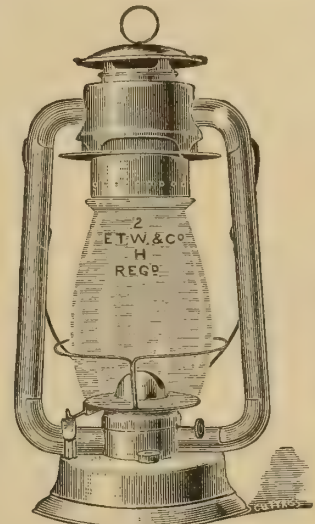
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 and
 Creamery
 Trimmings
 Stamped and
 Pieced
 Tinware
 Bird Cages
 Flour Sifters
 Mouse Traps

BINDER TWINE

PURE MANILA,
 650 ft. to the lb.

SPECIAL MANILA

TIGER

STANDARD

There is none
 "just as good."

These twines will not bunch at the knotter, and a Binder will run
 all day with them without stoppage, thus saving time, annoyance and
 an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and
 are not ashamed to put our name upon them. Don't take any other.

CONSUMERS CORDAGE COMPANY, Limited
Montreal.

BRASS GOODS AS CURRENCY.

THERE is probably no Birmingham industry of greater extent and importance than the production of brass goods of an almost infinite variety of shape and form, ranging from the tiny pins to the metal sheathing for an ironclad. As in many other trades of the hardware city, some of the ramifications of this industry are very curious, and, on that account, very interesting. To some of these we may briefly refer.

Brass rods are still used in many parts of West and Central Africa as a medium for currency. They are usually 3 feet in length and from 4 to 5 gauge in thickness, and are known in the trade as "guinea rods." Packed in cases containing 100, they find their way to the Gold Coast, and are sent inland in exchange for palm oil and other commodities, the natives accepting them as "legal tender" with as much confidence as a British merchant would accept Bank of England notes. Orders for this most curious kind of specie have, before now, been received in Birmingham to the extent of 20 tons in one lot. Brass rings for personal adornment, made of wire 7-16 inch thick and $3\frac{1}{4}$ inches in diameter, are also sent to the Gold Coast, and Zanzibar is a large market for thin brass wire, which is worked up into coil bracelets, three of which are deemed essential to the toilet of a sable Venus, who is sometimes content to wear naught else upon her black, but comely, person.

W. C. Aitken, of Birmingham, probably the best authority on the brass industry from its earliest times, has given some interesting facts, culled from the records of African travelers, on this subject. The records relate to a period thirty years ago, but the same fashions are, to a large extent, prevalent to-day. "The costume in brass worn by the Wanyamwezi are brass bangles, frequently weighing $4\frac{1}{2}$ lb. each, on the wrists. The forearm bears 'katinda' or coil bracelets, the waist is girt by a rope of wire twisted round a rope or fibre, and the ankles are covered with a profusion of iron bells and thin rings of brass and copper wire. Dr. Livingstone, in his visit to the Zambesi, observed of the head lady of Seshaka that she wore eighteen solid brass rings, as thick as one's finger, on each leg and three of copper under each knee, nineteen brass rings on her left arm, and eight of brass or copper on her right arm, also a large ivory ring above each elbow. The weight of the bright brass rings round her legs impeded her walking and chafed her ankles; but, as it was the fashion, she did not mind the inconvenience."

Armlet and anklet rings, made of milled-brass tubing, burnished and lacquered, are

still used by the merchants of the Gold Coast for payment of debts and for barter with the natives, and are produced in Birmingham, although not quite to so large an extent as in former years.

A considerable amount of yellow metal is sent from Birmingham to India. A large proportion of this is consumed in the native manufacture of brass cups, which at funerals serve the same purpose as do gloves and memorial cards in England. At the funeral of a Hindoo a brass cup is given to every Brahmin present, and the number of cups distributed sometimes reaches 5,000, or even 10,000, according to the rank and station of the departed.

Among Birmingham's productions in brass within the last fifty years none are, perhaps, more remarkable than two elaborate brass coffins, which were ordered by two wealthy palm oil potentates on the southwestern coast of Africa. They bore the respective titles of "King I Am" and "Egbo Jack," and they each had a desire to behold their mortuary chest before the time came for their interment. Each coffin was 6 feet 10 inches in length, 2 feet 3 inches wide, and 3 feet deep, and weighed 600 lb. The surfaces were polished, lacquered, and richly decorated with elaborate ornaments, and had substantial handles. A shield with emblazonings surmounted the lids, and each coffin had four padlocks, two opening from the inside and two from the outside. Various conjectures as to the meaning of these padlocks have been made, some of them of a romantic and superstitious nature; but the prosaic probability is that the coffins were intended as treasure-chests during the lifetime of their illustrious owners, and were meant afterwards to contain their bodies and their treasure.—Ironmonger.

PERSONAL MENTION.

Mr. W. A. Rumford, hardware dealer, Guelph, Ont., was in Toronto on business this week.

Mr. J. W. Shorney and Mr. Charles, travelers for The Toronto Lead and Color Co., were in Toronto last week brushing up their samples. They left for their respective routes on Monday, and will, doubtless, as hitherto, give good accounts of themselves.

AN AMPLE STOCK.

The Canada Paint Company say there is every indication that the coming spring's business will be a heavy one, and are providing for this contingency in all departments. In their white lead branch, in addition to the well-matured stock which they have on hand at Montreal, Toronto and Victoria, The Canada Paint Company have over 1,000 tons of choice brands of white lead to come forward at an early date.

BI-METALLIC SPECIALTIES.

A new line in plumbers' supplies is being introduced on the Canadian market by The Ontario Lead and Barb Wire Co., Limited. It is what is known as bi-metallic plated traps and specialties. These bi-metallic goods have been patented in the United States, and the patent for this market is held by the company referred to. The basis of these bi-metallic specialties is drawn lead finished and strengthened in such a manner as not only to have a splendid appearance, but it is claimed also to have all the good qualities of lead and brass combined. The goods are highly recommended. A catalogue dealing with these goods has just been issued by The Ontario Lead and Barb Wire Co., and is supplementary to catalogue "A" of this same company, and contains 16 large pages. Each page has an illustration in natural colors of one or more of the various articles included in the bi-metallic line. The catalogue is a decidedly attractive one.

This company is also issuing a price list on standard steam goods and waterpipes, malleable goods and wrought iron fittings, soil pipe fittings and pumps. It is a neat catalogue and consists almost wholly of tables giving prices and sizes and other information in regard to the articles therein enumerated. Every plumber should have one of these price lists.

ORIGIN OF NATURAL GAS.

Referring to the many ingenious and interesting theories which have been advanced regarding the generation and origin of natural gas—accounting, too, for the great pressures under which it is stored—a writer in Cassier's Magazine argues that the distribution and intimate relation of the carbon compounds all favor the theory of their generation by the decomposition of vegetable and mineral organic matter under widely different variations and surroundings of temperature, pressure, and other forces and chemical influences, from the earliest developments of organic life to the present time; the gas is according to such conditions, the product probably of slow primary decomposition, at low temperature, of animal and vegetable substances contained in natural sediments, as may be seen, for example, in the shallow, undisturbed portions of fresh-water lakes; further, the deposits of oil and gas in the peculiar geological formations from which they are being drawn for commercial uses, and due to the accidental disposition of the anticlinals and synclinals which act as reservoirs, and do not, necessarily, indicate the restriction of their generation to any particular geological periods. The richly productive gas pool is a dome or inverted trough of porous or coarse-grained sand or limestone, geologically called an anticline, covered by imperious shale or similar formation.

If it's an ARCADE, it's THE BEST.

That the ARCADE FILE WORKS at Anderson, Indiana, is the largest and most completely equipped plant for the manufacture of files in the world, is a minor point. Its product is what you are interested in, and the ARCADE product stands at the head of file production for the common-sense reason that their methods and facilities are ahead of their competitors.

Mr. Alfred Weed, who is the superintendent and mechanical head of the company, is one of the oldest file makers in the United States, and has probably taken out more patents on file machinery than any other living manufacturer. The entire plant at Anderson is the product of his skill and practical experience, comprising machinery especially designed for turning out every detail of the work, not only by the most careful and systematic methods, but with the greatest possible saving of time and money. Fifty Cents goes as far here as a Dollar in many of the old-fashioned plants. Then, too, the company owns a tract of natural gas land from which their fuel supply is drawn—the cheapest fuel in the world; and buyers of ARCADE files get the advantage of all these economies by the increased value of the product.



WEED'S PATENT INCREMENT CUT FILES.



ARCADE FILE WORKS, ANDERSON, IND., U.S.A.

Established 1842.

NEW YORK: 97 Chambers St.

CHICAGO: 118 Lake St.



These facts show why it is safe for us to sell files under our guarantee that **THEY WILL CUT FASTER AND WEAR LONGER THAN ANY OTHER FILE ON THE MARKET; OR WE WILL MAKE NO CHARGE.** All our files have Weed's Improved Increment Cut, which equals the best English Hand Cut.

If you use files take advantage of this offer on a trial order, however small. There's absolutely no risk to you in the trial.

If it's an ARCADE, it's THE BEST.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Jan. 13, 1899.

HARDWARE.

SINCE our last review of the general hardware trade there has been no important change to note in any particular line. The tone of the market is firm, in sympathy with the raw material, and when the demand sets in, values will, no doubt, improve for some lines. Barb wire and wire nails are much firmer, and higher prices are anticipated for these lines in the near future. Business on the whole has continued quiet, which is generally the case at this season.

BARB WIRE—A much firmer feeling prevails, and higher prices are being asked in some cases, but we still continue to quote \$2 f. o. b. Montreal.

PLAIN WIRE—The demand is slow and only for small lots to fill actual wants. Discounts are unchanged at 37½ per cent. on oiled and annealed, and 30 per cent. on galvanized.

WIRE NAILS—In sympathy with the

recent advance in raw material, prices are firmer, at \$1.75 to \$1.80, f.o.b. Montreal.

CUT NAILS—Demand slow and prices steady at \$1.75 f.o.b. Montreal, Toronto, Hamilton and London.

HORSE NAILS—There was even a better demand for these. Discounts are 50 per cent. on Standard, and 50 and 20 on Acadia brand.

HORSESHOES—No change to note in this line, except that there has been some call for small lines. We quote: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—A steady demand continues for small lots. Discounts are: Flat head bright 87½; round head do., 80; flat head, brass, 82½; round head, brass, 75. Machine screws, iron and brass, flat head, discount 30 per cent.; round head, 25 per cent.; coach screws, 75.

BOLTS—Demand limited and prices steady. Discounts are: Carriage bolts, ¼ to 5-16, 70 per cent.; ¾ and up, 60 and

10; machine bolts, ¼ and 5-16, 70 per cent., and ¾ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—Trade in these is fair and discounts are unchanged at 65 per cent. on black and tinned and 45 per cent. on copper.

CORDAGE—There is little doing in this line, and values rule about steady. We quote the following: Sisal, 7-16 and up, 9¾ to 10¼c., and Manilla 10½ to 11¼c., according to quality; smaller sizes, 1c. advance on this range.

CHURNS—The call is slow, and prices show no material change.

CLOTHES WRINGERS—Demand is limited at \$23 to \$30, as to brand.

HINGES—Quiet and steady. We quote as follows: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

CUTLERY—A better demand has been experienced for some lines, but the movement, on the whole, is small.

OIL STOVES

Something New for 1899

We would advise our customers not to place their orders for Oil Stoves till we show you our new line.

Our travellers will call on you in the near future with full particulars and prices.

**A Perfect Wonder.
Economical on Fuel.
Simple in Operation.**



**Don't contract for 1899 season
until you have seen ours.
If you want your goods quickly,
order from McClarys.**

The McClary Manufacturing Company

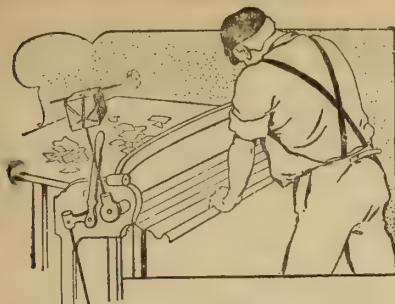
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



You can't afford to use
common galvanized iron.

Apollo facilitates work
and makes money.

Apollo Iron and Steel Company
Pittsburgh

**Fire Bricks and Fire Clay
Boiler Seating Blocks
Gas Retorts
Stove Linings and
Grate Backs
Portland Cements**

F. HYDE & CO.

31 Wellington street, MONTREAL
Importers and Dealers.

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

SKATES—The demand for these is over
for the season, and trade, in consequence,
is slow.

SLEIGH BELLS—There continues to be a
steady demand for these, of which stocks
are still small.

CEMENT—There is no new feature in this
market to note, the demand being slow and
prices steady. We quote ex store: English,
\$2.25 to \$2.45; German, \$2.50 to \$2.60, and
Belgian, \$1.90 to \$2.10.

FIREBRICKS—Trade fairly active at \$18.50
to \$24 per 1,000, as to brand.

METALS.

There has been no improvement in the
demand for metals during the past week.
In consequence, the market, on the whole,
is quiet and without any special feature to
note. In pig iron the feeling is very firm,
and, although sales are slow, there is no
disposition on the part of moulders to steady
prices whatever. There is a strong under-
tone to the market for tin, owing to the
recent sharp advance in prices in the foreign
market. Other lines are also firm, but no
actual change in prices has taken place.

PIG IRON—The demand for pig iron is
still slow, but holders are very firm in their
views, as higher prices are anticipated
later on. We quote: No. 1 Hamilton
\$15 to \$15.50; No. 2, \$14.75; Ferrona,
\$14.75 for No. 2, and \$15.50 for No. 1, and
Summerlee and equal brands, \$18.50 to
\$19 ex yard.

BAR IRON—There is not much of a
movement in this article, but prices are
firm, car lots being quoted at \$1.30 and
quantities at \$1.35 to \$1.45.

HOOPS AND BANDS—Quiet and un-
changed at \$1.75 to \$2.

SHEET STEEL—Firm, but moving slowly.
We quote as follows: 14 gauge, \$2.40
per 100 lb.; 16 gauge, \$2.50 18 to 20,
\$2.30; 22 to 24, \$2.45 26, \$2.55, and 28,
\$2.80.

SHEET IRON—Trade moderate and prices
unchanged. We quote as follows: \$2.15
on 10 to 16 gauge; \$1.90 on 18 to 20
gauge; \$2.10 on 22 to 24 gauge; \$2.20 on
26 gauge, and \$2.25 on 28 gauge.

GALVANIZED IRON—There is a fair de-
mand for small lots of this article. We quote:
"Queen's Head," No. 28, \$4 to \$4.15; and
"Comet," No. 28, \$3.75.

INGOT COPPER—A few lots have changed
hands at 13¼ to 13½c.

SHEET COPPER—Demand limited, at
steady prices. We quote: 16-oz., 16c.,
and 14-oz. 17c.; tinned copper, 16-oz.,
18c.; 14-oz., 18½c., and planished 14-oz.,
24c.

INGOT TIN—An easier feeling has pre-
vailed in this, and prices are quoted ½c.
lower. We quote: Straits, 19½c., and Lamb
and Flag, 20c.

Iron, Steel and Metals.

Best brands at low prices for import,
to wholesale buyers only.

A. C. LESLIE & CO.
MONTREAL

Just opened up

CHAMOIS SKINS

Values unequalled.

Our travellers will call on you.

Inspect Their Samples.

T'll pay you.

E. F. WALTER & CO.
(2) MONTREAL.

ADAM HOPE & CO.

30 JOHN STREET N

Hamilton, Ont.

Importers and Dealers in

PIG TIN

We offer for sale, to arrive at New
York per steamers "Indralima," "Argyle,"
"John Sanderson," also ex-store Toronto,
Montreal and Hamilton. Market strong
and active. Still higher values predicted.
Write us for quotations before buying.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

PIG LEAD—Demand quiet and prices firm at \$3.90 to \$4.

IRON PIPE—There was no change in this line, and the movement is only moderate. We quote: Black pipe, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch, and $\frac{1}{2}$ -inch, \$2.35; $\frac{3}{4}$ -inch, \$2.80; 1-inch, \$3.85; $1\frac{1}{4}$ -inch, \$5; $1\frac{1}{2}$ -inch, \$6.70, and 2-inch, \$9. Galvanized, $\frac{1}{2}$ -inch, \$3.95; $\frac{3}{4}$ -inch, \$4.80; 1-inch, \$6.65; $1\frac{1}{4}$ -inch, \$9.15; $1\frac{1}{2}$ -inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—Unchanged, with a fair demand. We quote ordinary, 7c., and composition waste, $7\frac{1}{2}$ c., with 25 per cent. discount.

CANADA PLATE—In moderate demand, and firm. We quote: 52's, \$2.15 to \$2; 60's \$2.30; 75's, \$2.35; full polished, \$3; galvanized Canada plate, 52's, \$3.75.

TINPLATES—Steady, but market is featureless. We quote: Coke, I.C., \$2.90 to \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.25; do, I. X., \$4.10 to \$4.25; Lincoln, \$3.50; P.D. Crown, I.C., \$3.95; do. I.X., \$4.95; Bradley's, \$5.75.

TERNE PLATE—Quiet, and unchanged at \$6 to \$6.25.

COIL CHAIN—Demand slow with no change to note. We quote: $\frac{1}{4}$ -inch, \$4.75 5-16, \$3.50; $\frac{3}{8}$, \$3.15; 7-16, \$3; $\frac{1}{2}$ -inch, \$2.80 and $\frac{5}{8}$ up, \$2.80.

SHEET ZINC—Values firm at 7 to $7\frac{1}{4}$.

SOLDER—The demand is fair at 12 $\frac{1}{2}$ to 13c.

ANTIMONY—Quiet and unchanged at 9 $\frac{1}{2}$ to 9 $\frac{3}{4}$ c.

SPELTER—Movement fair at former figures.

GLASS.

There has been no important change in the situation of this market. The tone is very firm, and it would not be surprising if higher prices went into force before fresh importations come in. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The white lead manufacturers met here on Thursday last, and, notwithstanding the high price of materials, it was agreed to make no advance on white lead for the spring trade. The figures recently published by us are, therefore, continued until opening of navigation. Buyers of white lead may congratulate themselves that there is such a measure of competition existing in our markets as to keep prices down to the lowest paying point. We understand that the leading makers have made ample provision for the new season's trade, in hope of making up by increased quantity for the lessened profit. It is interesting to know that, as a result of the high standard quality

attained in Canada, the importation of English paint, which was, at one time, familiar on our markets, has practically ceased. Another interesting feature is that, whereas ten years ago a large quantity of common white paint might be found in our stores, by far the greater proportion of white lead now sold in the Dominion is of the highest possible quality. The great advance in such materials as zinc, turpentine and others led to an impression that ready mixed paints would open at advanced prices for the new season, but no collective action has been taken by makers, so that buyers will likely be able to duplicate last season's prices. Turpentine maintains the high prices reported in our last, which is the highest figure we have quoted for nine years, but it looks as if the top has not yet been reached. Linseed oil also continues firm. The latest English cables report a gradually strengthening market.

WHITE LEAD—Best brands, Government standard, \$5.62 $\frac{1}{2}$; No. 1, \$5.25; No. 2, \$4.87 $\frac{1}{2}$; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, $4\frac{1}{2}$ c.; kegs, $4\frac{3}{4}$ c.; No. 1, casks, $4\frac{1}{4}$ c.; kegs, $4\frac{1}{2}$ c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Quiet at 8 $\frac{1}{4}$ to 8 $\frac{1}{2}$ c.

SEAL OIL—37 to 40c.

NAVAL STORES—In this branch of the trade there is no new feature to note. We quote: Resins \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PETROLEUM.

The feeling is firm and the market rules active with a good demand. We quote: "Crown Acme," the new Sarnia oil, is selling at 15 $\frac{1}{2}$ c. in small quantities; Canadian refined, 14c.; American prime white, 17c.; water white, 18c.; Pratt's astral, 19 $\frac{1}{2}$ c.

ASHES.

The market is quiet and steady at the recent decline. We quote: First pots, \$4.05

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



Force Lift Cistern Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDUGALL CO., Limited

Galt, Canada.

to \$4.10, and seconds, \$3.75 to \$3.80 per 100 lb.

HIDES.

Demand is slow and receipts light, with no change in prices. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

ONTARIO MARKETS.

TORONTO, Jan. 13, 1899.

HARDWARE.

THE travelers are again on the road and business is once more assuming its normal condition after the holidays. The feature of the market is the strength of wire and wire nails, all of which have been advanced, largely in sympathy with the consolidation in the United States and the consequent higher prices in that country. Barb wire and staples are 10c. per 100 lb. dearer, while wire nails are being held as high as \$1.90 by those who are holding. Some, however, prefer not to quote at all. In cut nails trade is about as dull as ever. In horse nails and horseshoes a fair business is reported. Screws are in fair demand, but bolts, rivets and burrs are quiet. Rope is still dull, with prices unchanged. There is some cutlery going out and a little more activity is to be noted in enameled ware.

BARB WIRE—In consequence of the ad-

vance in the United States this week, the Canadian makers have made another change in their prices, advancing them 10c. per 100 lb. We now quote f.o.b. Toronto as follows: Four-point, \$2; 2-point, \$2.05; safety, \$2.10; plain twist, \$2.05; staples, \$2.25 for galvanized, and \$2 for bright. There is not much doing, however, as far as business is concerned.

WIRE—This is also much stronger, in sympathy with the American market, and quotations for most lines have been withdrawn. Galvanized fencing wire of Canadian make is quoted at 10c. per 100 lb. higher. We quote: No. 9 galvanized fencing, \$1.75; No. 12 do., \$1.90; No. 13 do., \$2.

WIRE NAILS—The market has gained further strength during the past week. Some of the manufacturers have withdrawn prices altogether, while a few are quoting at higher figures than last week. At the moment, there does not appear to be any uniform jobbing price. Some houses are asking, and getting \$1.90, and, occasionally, even \$2, while nails can also be bought as low as \$1.80 at the moment. From the present condition of the market, however, it is quite possible that these prices might change any day. There has been an advance of \$2 per ton in wire nails in the States.

CUT NAILS—There is still very little business being done, and prices are unchanged. We quote the base price at \$1.75, Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—The manufacturers are doing very little business, as the purchases were heavy before the close of the year, in order that the benefit of the rebates might be secured. The jobbing trade is still fair. Discounts are: Standard, oval head, 50 per cent. Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Much the same remarks apply to these as to horse nails. We quote: Iron shoes, light, medium, and heavy, \$3.25; f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—Business in this line continues fair at unchanged prices. Discounts are as follows: Flat head bright, 87½ per cent.; round head bright, 80; flat head brass, 82½, and round head brass, 75 per cent. Machine screws, round head, 20 per cent.; flat head, 25 per cent.

BOLTS—There is little or nothing doing at the moment. We quote: Common carriage bolts, ¼ to 5-16 inch, 70 per cent.; ditto, ¾ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 60 and 10 per cent.; coach screws, 70 and 10 per cent.; blank bolts, 60 per cent.; sleigh shoe bolts, 80 per cent.;

They're Popular
because they're better

Our Metallic Ceilings & Walls

Offer more good features than any other interior finish, without any of the drawbacks.

They are economical—durably beautiful—fireproof—sanitary—easily applied—easily cleaned—never crack or drop off.

These are talking points that make sales easy, and people all over Canada are choosing our metallic finish. Are you ready for their trade?

If not, write at once for our catalogue and price list.



Sample Design—Plate No. 229.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, 4¾c.; hexagon, 5¼c.

RIVETS AND BURRS—The quietness which has been noticed in this market for some time still exists, with prices unchanged. We quote: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 45 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The market for both sisal and manila hemp is firm and higher. Rope, however, is still without any change, and business, as before, is dull. We quote: Sisal, 7-16 in. and larger, 9¾c.; ¾ in., 10¼c.; ¼ and 5-16 in., 10¾c.; Manila, 7-16 in. and larger, 10½c.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business continues to be fairly good and prices unchanged. We quote as follows delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

CLOTHES WRINGERS—The volume of business is still small. We quote: "New Leader," "Lightning," \$30 per doz.; "Royal Canadian," with brass corners, \$29.50; "Novelty," \$26; "Royal American," \$26.

BUILDING PAPER—There is still very little doing in this line. We quote:

Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

CUTLERY—A fairly good sorting-up trade is being done.

SAP BUCKETS—Shipments of sap buckets have begun. Orders are coming in quite as freely as last year, and prices are about the same.

CEMENT—There is nothing doing. No change. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do, \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

WARE—A good deal of enamel ware has gone out during the past week, and business in this line is more active than it has been for a month or more. Tinware is still quiet.

METALS.

The market rules strong. Galvanized iron, of American manufacture, is 5 per cent. dearer. Tin, lead, copper, and spelter are all dearer.

PIG IRON—The market is strong, with the demand firm.

BAR IRON—The volume of business is still light. Base price \$1.45 from stock and \$1.35 from factory.

BAND IRON—Dull. We quote as follows: \$1.65 to \$1.75 per 100 lb. for Canadian and \$2 for imported.

SHEET STEEL—Continues light. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge,

\$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

BLACK IRON—Still Quiet. We quote as follows: 10 to 12 gauge, \$2.25 to \$2.40 per 100 lb.; 14 to 16 gauge, \$2.60 to \$2.70; 18 to 20 gauge, \$2.30 to \$2.40; 22 to 24 gauge, \$2.25 to \$2.35; 26 gauge, \$2.30 to \$2.40; 28 gauge, \$2.45 to \$2.55.

GALVANIZED IRON—The price of American galvanized iron has been advanced 5 per cent. in the primary market, and local quotations are 15c. per 100 lb. higher in consequence. A few shipments of galvanized iron are being made. Quantity orders of English iron for import, to arrive after the opening of navigation, are about over. Orders for American galvanized iron placed last month are now beginning to be put through. We quote as follows: Queen's Head, 16 gauge, \$3.75; 18 to 24, \$4; 26 gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3.15; 18 to 24, \$3.30; 26 gauge, \$3.55; 28 gauge, \$3.90. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. In "Queen's Head," less than case lots are quoted 25c. per 100 lb. higher than above figures.

INGOT COPPER—There has been a further advance in the outside markets. Locally, 14½ to 15c. per lb. is still the idea as to price.

PIG TIN—Further sharp advances have taken place during the week in the primary market. London advanced £2 in one day alone. A great strain was experienced in London, where prices, since the beginning of the year, appreciated £8 10. to £8 15s. per ton. We quote: Lamb and Flag, 24½c.; Straits, 24c. per lb.

PIG LEAD—The outside markets have taken a stronger turn. Locally, business is quiet and prices unchanged at 4c. per lb. for imported.

LEAD PIPE—Trade continues quiet. We quote: Ordinary pipe, 7c., and composition waste, 7½c., with 25 per cent. discount.

IRON PIPE—The market continues firm, with business moderate. We quote: Black pipe, per 100 feet, ¼ to ¾ inch, \$2.30 to \$2.40; ½ inch, \$2.30 to \$2.35; ¾ inch, \$2.80 to \$2.85; 1 inch, \$3.90 to \$3.95; 1¼ inch, \$5.14 to \$5.20; 1½ inch, \$6.75 to \$6.86; 2 inch, \$9.10. Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$6.75; 1¼ inch, \$9.15; 1½ inch, \$11.75; 2 inch, \$16.

RANGE BOILERS—Trade is fair and price firm. We quote as follows: Galvanized, 30 gals., \$5.25; 35 gal., \$6; 40 gal., \$7; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—There are a few boxes going out. We quote: All-bright,

\$2.85 to \$3; half-polished, \$2.35; all-dull, \$2.25.

TINPLATES—The demand is fairly good. As usual, tinsmiths are busy getting their stocks into condition for the coming season's trade. Prices are firm, but quality unchanged.

COIL CHAIN—Quiet. We quote as follows: ¼ in., \$4.65; 5-16 in., \$3.75; ¾ in., \$3.25; 7-16 in., \$3.15; ½ in., \$3.10; ⅝ in., \$2.80; ¾ in., \$2.75.

SHEET ZINC—There are a few casks going. We quote 7¼c. for cask lots, and 7½c. for smaller lots.

ZINC SPELTER—The outside markets are a little stiffer, although locally prices are unchanged. We quote: 5¼ to 6c. for imported.

SOLDER—Trade is fair with quotations higher. We quote: Half-and-half, 14½ to 15c.; and refined at 13 to 13½c.; per lb.

PAINTS AND OILS.

Buyers of white lead paint have been on the tenter hooks, so to speak, during the last few days, regarding the action of the white lead association which has recently met in Montreal. It was felt that the higher prices prevailing at the primary markets would certainly lead to a response in Canada, but, owing to the keen competition amongst the grinders here, both large and small, it was thought advisable to keep the figures at the present low range, and, we understand, this necessary staple can now be booked at the current prices of our present schedule until May of this year. This provision will serve to steady the market and enable the hardware merchant to quote and make contracts for early spring work, without fear of having the price advanced to him in the immediate future. It will be well, however, for the dealer and jobber to place his orders early to insure prompt and certain delivery before the extraordinary spring rush, which is anticipated, commences. Scarcely any Old Country ground white lead is now coming forward, as the leading Canadian grinders have mill facilities which insure perfect stock, and the popular brands, ground in the Dominion, are now freely specified, to the exclusion of the old-time, but now obsolete, English makes.

Much dissatisfaction has been expressed by the unnecessary cutting in Paris green. A very necessary article, which, on account of its speculative tendency, should command a fair price, but, owing to the particular condition prevailing this year, this friction has been in a measure unavoidable. Still, there are not wanting evidences that the market is rapidly steadying, and hopes are entertained that Paris green will be very shortly upon a much more satisfactory footing.

Varnishes and japans are very firm. Turpentine has reached such a figure that it does not pay to turn out the cheaper varnishes at quotations now prevailing, and some manufacturers have drawn their fires until one of two conditions arise, viz.,

varnish must go higher or turpentine lower. Meantime there is little or no prospect of the latter contingency, according to the latest advices from the south. Coach colors, dry colors, and liquid paints are being booked freely for early spring shipment, and the prospect is a bright one. No advance has been made in quotations, although the present high figures for lead, zinc and turpentine would certainly justify one in the manufactured lines. A firm feeling is still manifested for all staples. We quote as follows:

WHITE LEAD—Ex Toronto, pure white lead, \$5.75; No. 1, \$5.37½; No. 2, \$5.00; No. 3, \$4.62½; No. 4, \$4.25; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.75; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 6½ to 7½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 63c.; in less quantities than barrels, 5c. per

FOR \$1,000 I can place a 35-line advertisement, every other day for one year, in fourteen of the leading papers in the eleven largest cities in Canada.

This is merely to give an idea of how far money can go in this country.

Never have failures been fewer, never has trade been better, never has there been better prospects for the shrewd advertiser.

I know the papers best suited for different businesses, I know their rates, I am in a position to help all who want to share in Canada's prosperity. Write stating who you want to reach, and I will gladly submit list and figures.

The E. Desbarats Advertising Agency, Montreal.



**CAN FAUCET
CHEAPEST**

but made like the most costly. Sample Free.

J. M. LITCHFIELD

458 Quincy St., Brooklyn, N.Y.

gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

There is little doing. Prices continue firm and unchanged. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

The offerings are not equal to the demand. In consequence, a scarcity, with decidedly firm prices, is reported. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per per lb.; bottoms, 8c.; heavy copper, 8 1/4 to 8 1/2 c.; light scrap brass, 4 to 4 1/2 c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, 7 1/2 c.; scrap lead, 2 1/2 to 2 3/4 c.; zinc, 2 1/4 c.; scrap rubber, 3 1/2 to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

In the lull between export and domestic demand there is little doing. Prices are down 25 to 50c. below last quotations. The range in alsike values is large, from \$2.25 to \$4 being quoted, the latter figure only being paid for strictly choice lots. Red clover, also, shows a big range in value, from \$2.75 to \$3.75 being paid, the top price only for extra choice, large grain, rich purple seed.

COAL.

Though deliveries of coal have been more liberal, there is still a scarcity, and prices continue firm at the advance noted last week. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton, or \$3.79 per net ton.

PETROLEUM.

Demand is brisk, with prices unaltered. We quote at Toronto: Canadian, 13 1/2 c.; Sarnia water white, 15c.; American water white, 16 1/2 c.; Pratt's astral, 16c., in bulk.

MARKET NOTES.

Solder has been advanced to 14 1/2 to 15c. for half and half.

Wire nails, barbed wire and other lines of wire are quoted higher.

Pig tin is higher at 24 1/2 c. for Lamb and Flag, and 24c. for Straits.

Ingot copper is quoted at 14 1/2 to 15c., an advance of 1/4 to 1/2 c. per lb. on last week's figures.

MR. HOWARD'S LAST TRIP.

Mr. F. A. Howard, representing Ham & Nott Manufacturing Co., Limited, Brantford, formerly Knowles, Ham & Nott Co., Limited, starts on his eastern trip this week to Montreal and the Maritime Provinces. This is Mr. Howard's last trip. He has taken an interest in an established hardware business in Brantford, and **HARDWARE AND METAL** wishes him success in his new sphere.

76,800 Daily Products on
5 Factories.
5 Brands

For Sale all
over the world.

NICHOLSON

FILES

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of
America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

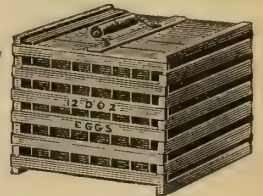
Established 1773

Manufacturers of POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS. Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.

**ALWAYS GET THE BEST**

Humpty Dumpty
Folding . . .
Egg Crates



FARMER JOHN.—"Isn't it annoying, after bringing these eggs so far to find them in this condition?"

MERCHANT.—"True, it is, but you can avoid both the disappointment and loss by using the new Egg Crate; they call it the Humpty Dumpty, and it is the finest thing I have seen for carrying eggs. You never lose any, and you always know exactly how many you have."

FARMER JOHN.—"It does look like a good thing, but times have been rather bad lately and baskets are cheaper."

MERCHANT.—"That's where you are mistaken, 'a penny saved is a penny gained,' and you are out just about the value of one crate on this damaged lot; take my advice and use them in future."

Nothing to equal them
for farmers' use.

Light and Durable.

Breakages and miscounts
out of the question.

Handy for carrying any-
thing when fillers are
removed.



The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.

SEND FOR PRICES

Made Exclusively by

The DOWSWELL MANUFACTURING CO., Limited**W. L. HALDIMAND & SON**

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA.

A THOUSAND MILES SQUARE OF GOLD.

SO much has been said in regard to the Klondyke that it would be almost impossible, one might think, to say anything further that would be either new or interesting.

Whatever may be one's views, however, in regard to this, the preliminary report, which has been issued by the Department of the Interior, bearing on the gold deposits and mining in the Klondyke, can scarcely fail to arrest attention, especially when it is known that the report is based upon the surveys of J. B. Tyrrell and R. G. McConnell, of the Geological Survey staff.

The report is particularly interesting in that it gives the area of the gold district, the situation of the gold, and its probable sources.

The area of the gold district covers no less than 1,000 square miles. We can gather some idea what this means when we imagine a district enclosed on each of its four sides by a line reaching from Toronto to Halifax.

Of course, not every foot or every mile within this area contains gold, but this area is traversed by a multitude of gold-bearing streams flowing in deep trough-like valleys.

The creeks which have so far been found to be rich are four in number. They are El Dorado, Bonanza, Hunker and Dominion. The proved portions of the four producing creeks have an aggregate length of about 30 miles.

The gold occurs in the gravel flooring in the bottom of the valleys, in stream terraces lining the lower slopes of the valleys, and in a remarkable moraine or glacial deposit which forms a southern slope of the El Dorado and Bonanza creeks for some miles, and which was also found north on the latter creek for some distance above its junction with El Dorado.

The gravels have a thickness of from two to eight feet, and these everywhere are more or less auriferous, that is, gold-bearing, with the yellow metal increasing in quantity towards the bottom. The greater part of the pay is found within 18 or 24 inches of the bottom. The gold is fine, but nuggets valued at \$1.35 have been found.

As to the original habitation of the gold found in the gravel beds of the streams, the Government geologists say it was no doubt in quartz, and north of El Dorado creek they found gold in a thick quartz vein.

From another source it is learned that there are 40,000 people in the Klondyke, all of whom are depending, directly or indirectly, on the gold industry for a livelihood. But extensive and rich as the gold-bearing area is, it is only the few who are

likely to draw the rich prizes, while the many would have been better off had they remained in the civilized parts of the country and labored for a moderate wage. But it is after all the spirit of adventure that has led to the amassing of wealth and to the opening up of new markets.

SELLING DIRECT TO RETAIL TRADE

THE recent announcement by a well-known firm, engaged in the manufacture and sale of bicycles and sporting goods, that hereafter they would dispense with jobbers and place their goods with the retail dealers or merchants at the same prices to all whether purchases were heavy or light, has stirred up the hardware trade considerably and occasioned much discussion.

On the one side it is contended that by the adoption of this policy both manufacturer and dealer are benefited, as the manufacturer retains such control of his business that he can prevent cutting of retail prices, and, saving the jobbers' or wholesalers' profit, he can do better by the dealer, while the latter gets his goods at first hand and at lower figures than the jobber could afford and feels assured that cutting of prices to consumers will be diminished.

On the jobbers' side it is contended that their profit or commission is not saved, nor any part of it, by the manufacturer in selling direct to retailers, as the cost to him of employing and maintaining canvassers to go over the country and place his own line would be more than he allows the jobbers for placing it in conjunction with the other lines handled by them; and also that the

cutting of prices to consumers will go on just the same. It is further contended that this change—the abandonment of the middleman or jobber and going direct to the dealer—is in the interest of the catalogue houses and department stores, as it simplifies and makes more direct dealings between them and the manufacturers; and it is charged that the manufacturers who favor this policy have been selling to catalogue houses and department stores, and do not want the wholesaler in this way.

We are noticing this discussion as a matter of news and not for the purpose of considering the new policy on its merits. In the past the middleman has been an essential factor in trade, and we doubt that its development has yet reached a point where he can be dropped out.—Farm Implement News.

NEW STRIKE AT THE KLONDYKE.

Joseph Mueffeleau, a French-Canadian who has been in the Klondyke region for some time, recently stated in Vancouver that a new strike of gold has been made at Thistle Creek, about 90 miles from Dawson. In the claims he and his partner staked out every hole yielded results. From one of them they took \$48 in gold.

A FEW MORE SNIDER RIFLES.

Hardwaremen are like all other business men, always looking for a snap. Lamplough & McNaughton, Montreal, have a few cases of Snider rifles that have never been used, and which they are now offering to the trade. This is a chance for securing a new rifle at a small cost and one that can be retailed at a handsome profit.



Every dealer wants to increase his local reputation—good goods will do it.

Money invested in good goods means a better chance of profits.

The "G & J" detachable is the best of detachables. It can't come loose. It doesn't leak.

It is easy to put on. The "second groove" makes it superior.

Then, there's the Goodrich Reflex Single Tube—"pump it once a month."

It's another local reputation-making tire.

Write us for our dealers' catalogue.

AMERICAN TIRE CO.

Limited
166 King St. West,
Toronto.

THE FAIRBANKS COMPANY

749 Craig St., MONTREAL.

We Find--- That by studying a customer's ideas and supplying him with the scale best suited to his use, that he is satisfied, and we profit.

You Will Find--- That if you handle

Fairbanks Standard Scales

you will have the best known, most complete, and promptly furnished line on the market. Wait for our travellers! Catalogues for your address on a post card.



SUMMER STOVES for '99.

We are gratified at being able to inform the trade that we are again this year Sole Agents in Canada for the well-known "QUICK MEAL" Gasoline and Blue Flame Oil Stoves.

Last year the "Wickless" Quick Meal Blue Flame Stove was made in small quantities, and had so extraordinary a success that it is now manufactured in full lines.

Don't place any orders before learning full particulars about these popular "better than ever" lines.

THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

MANITOBA MARKETS.

WINNIPEG, Jan. 9, 1899.

TRADE is quiet, and only two changes are noted for the week. Barbed wire has advanced 10c. per 100, and is now quoted at \$2.50 Winnipeg, with no reduction for car lots. Zinc has also advanced \$1 per 100 lb., and is quoted at \$8 for cask lots and \$8.50 for broken lots. An advance in pipe is expected shortly.

Mr. Falls, manager for Geo. D. Woods & Co., and Mr. Hiram Miller, of Miller, Morse & Co., have returned from visiting Eastern centres. Mr. Falls reports trade in the east as exceptionally good.

Prices for the week are as follows :

Barb wire, 100 lb.	\$2 50
Plain twist	2 40
Wire and staples	2 90
Oiled annealed wire	2 80
"	11 20
"	12 25
"	13 20
"	14 30
"	15 30
Wire nails, 30 to 60 dy, keg.	2 35
" 16 and 20	2 40
" 10	2 45
" 8	2 50
" 6	2 65
" 4	2 75
" 3	3 00
Cut nails, 50 and 60 dy.	2 15
" 20 to 40	2 20
" 10 to 16	2 25
" 8	2 30
" 6	2 35
" 4	2 60
" 3	2 85
" 3 fine	3 15
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.05 basis.	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 to 24 gauge	4 00
26 gauge	4 25
28 gauge	4 50
Genuine Russian, lb	12
Imitation	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tin plate, IC charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	12 50
Canada plate, 18 x 21 and 18 x 24	3 00

Sheet zinc, cask lots, 100 lbs	8 00
Broken lots	8 50
Pig lead, 100 lbs	4 25
Wrought pipe, black, 1/4 inch	2 50
" 3/4 inch	2 75
" 1 inch	3 00
" 1 1/4 inch	4 00
" 1 1/2 inch	5 00
" 2 inch	7 00
" Over 2 inch	8 50
Rope, sisal, 7-16 and larger	11 50
" 3/4 and 5-16	11 50
Manilla, 7-16 and larger	12 00
" 3/4 and 5-16	12 50
Cotton, all sizes, lb.	13 00
Axes, per box	15
Screws, flat head, iron	\$5.50 to 800
Round	85 p.c.
Flat " brass	77 1/2 p.c.
Round " "	80 p.c.
Bolts, carriage	72 p.c.
Machine	60 p.c.
Tire	60 p.c.
Sleigh shoe	55 p.c.
Rivets, iron	65 p.c.
Copper, No. 8, lb.	50 p.c.
Spades and shovels	28c.
Harvest tools	40 p.c.
Axe handles, turned, s. g. hickory, doz.	10 p.c.
No. 1	\$2 50
No. 2	1 50
Octagon extra	1 25
No. 1	1 65
Linseed oil, raw, per gal.	1 25
boiled	58
Ammunition, cartridges, Dominion R.F.	60
Dominion, C.F., pistol	50 p.c.
military	25 p.c.
American R.F.	15 p.c.
C.F. pistol	35 p.c.
C.F. military	5 p.c.
Loaded shells, Robin Hood, M	Net.
Eley's 12 gauge, M.	\$20 00
American, M.	16 00
Shot, Ordinary, per 100 lbs	16 25
Chilled	6 25
Powder, F.F.F., keg	6 75
F.F.G.	4 75
Robin Hood	5 00
Tinware, pressed	10 00
Granite ware, according to quality	.70 and 30 p.c.

NOVA SCOTIAN GOLD.

Nova Scotia is a comparatively old gold mining country. A quarter of a century ago the production had fallen off to less than half what it had been in the sixties. But it has been impressed on investors that the Nova Scotian gold fields have not been half explored, and within the past two years the industry has been greatly revived. The production of gold in 1898 not only exceeded that of recent years, but beat the record of the boom period of thirty years ago. The

member of the Dominion Geological Survey staff who has worked most in this field, is of the opinion that there is a great future for gold mining in Nova Scotia, and that this will be realized when intelligent work is done in the lower levels.—Herald, Halifax.

GOODS TO BE ADVERTISED.

ANY goods in the least way essential to humanity are worth advertising. If one should start to make a terse definition of civilization, I think it would read something like this :

"Civilized people are those who require a great many changes of food and drink and raiment and housefurnishings to make them comfortable."

Some of the smallest articles in use in the house are the most necessary : the lack of which cause the most inconvenience. One instance is the little, shiny black knobs fastened on tin pot lids. It is only lately that these extra knobs have been for sale ; at least I heard one woman say to another : "I didn't know you could buy those. I have thrown away lots of lids because the knobs were lost."

These, and many other small necessities, lie in their boxes or baskets, in stores, gathering dust and making their owners wonder what to do with them.

The first and last and best thing to do is to advertise them, always remembering that the more highly civilized a woman is, the more intricate is her work, and the more she needs the little conveniences.

It is most advisable for any business house to have, occasionally, or maybe periodically, a day of small things. Fill your advertising space with lists and prices of all notions or little housekeeping conveniences. They need not necessarily be marked down. That point may always be left to the dealer. But these small articles, though sold at a profit, must move either steadily or in rapid, occasional spasms, to make the handling of them interesting. A "notion day" at a store, I am very sure, would prove a good and profitable institution, and it may be inaugurated in any business under the sun.—C. A. Bates.

JOHN BOWMAN HARDWARE AND COAL CO.

180 to 182 York Street

- LONDON, ONT.

Agents for the

Sewall & Day Cordage
Co's Celebrated

Binder Twine

The Finest Goods on the Market.

Write us for Prices.

SEWALL & DAY CORDAGE CO.

Established 1835.

BOSTON, MASS.

Binder-Twine.



This Brand is a guarantee of the Best
Binder Twine made.

T. BURROWES ROSS

Canadian Representative,

417 Board of Trade Building,

--- **MONTREAL**

**Write
for Prices.**

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

GEO. CREAK has been appointed liquidator of The Londonderry Iron Co., Limited, Montreal.

J. A. St. Laurent, general merchant, Father Point, Que., has assigned.

J. W. Tremblay, general merchant, Les Eboulements, Que., has assigned.

Mrs. Simon Narovlansky, general merchant, Moosomin, Man., has assigned.

A. P. Manson, general merchant, Sintaluta, Man., is offering 80c. on the dollar.

Wm. H. Hackett, general merchant, St. John's, Nfld., has applied for insolvency declaration.

A meeting of the creditors of A. J. Prefontaine, general merchant, Beloeil, Que., will be held on Jan. 17.

J. T. Stock, general merchant, Waterdown, Ont., has assigned to C. S. Scott, Hamilton, and a meeting of his creditors will be held on Jan. 13.

PARTNERSHIPS FORMED AND DISSOLVED.

Meikle & Coppinger, general merchants, Morden, Man., have dissolved, Henry Meikle continuing.

Bates & Gillis, general merchants, Sydney, N.S., have dissolved and are asking an extension of time.

Pollock & Davidson, blacksmiths, Sintaluta, Man., have dissolved, Davidson continuing.

E. Becker & Co., importers hardware, Montreal, have dissolved, and Florenz Cords has registered as proprietor.

Eagle & Paxton, general merchants, 150-mile House, B.C., have dissolved, John Eagle retiring, T. Paxton and J. W. Eagle continuing under old style.

SALES MADE AND PENDING.

The assets of Ira A. Byce, general merchant, Kars, Ont., are to be sold.

The stock of The Ottawa Steel Range Co. has been sold at 55c. on the dollar.

E. A. Cote, general merchant, Papineauville, Que., has sold out at 46¾c. on the dollar.

The stock of W. Defoe, general merchant, Methuen, Man., has been sold at 65c. on the dollar.

H. N. Coursier, general merchant, Revelstoke, B.C., has sold his grocery stock to Steed & Morris.

The assets of T. J. Bourke, general merchant, Valleyfield, Que., are to be sold on the 14th inst.

The stock, etc., of P. Graveline, general merchant, Ange Gardien, Que., has been sold at 57c. on the dollar.

The stock of J. H. Bedard, general merchant, Franklin Centre, Que., has been sold at 46c. on the dollar.

The stock of James Ahearn & Co., general

merchants, Newport Gaspé, Que., has been sold at 42c. on the dollar.

Veith & Borland, general merchants, 150-Mile House, B.C., are advertising their blacksmithing business for sale.

CHANGES.

R. Parker, general merchant, Crysta City, Man., has been succeeded by J. A. Orange.

Nott & Turnbull, hardware dealers, Brantford, Ont., have been succeeded by Turnbull, Howard & Co.

G. Corbett & Sons, founders, Owen Sound, Ont., have been succeeded by The Owen Sound Iron Works Co.

P. A. Conroy is advertising his intention of retiring from business as grocer and hardware dealer in Cornwall, Ont.

FIRES.

Pierce Bros., general merchants, Warren, Ont., have been burned out.

A. Sinclair, hardware dealer, Paisley, Ont., has suffered damage by water.

Wm. Tierney, merchant, Nelson, B.C., is opening a general store at Sirdar, B.C.

J. F. East, general merchant, Kleinburg, Ont., has suffered damage by fire and water.

John Hanna, general merchant, Wingham, Ont., has suffered loss by fire and water.

J. E. Wescott, hardware dealer, West Lorne, Ont., has suffered damage by fire and water.

S. Gould & Son, general merchants, Canterbury Station, N.B., have been burned out; partially insured.

NEW COAL MINE IN NOVA SCOTIA.

Improvements are contemplated by The Sydney Coal Co. in the development of their areas, according to a Halifax paper. The old company known as The North Sydney Mining Transportation Co., has been reorganized, and is now composed of men from Canada and the United States, representing a large amount of capital. An electrical plant will operate a large coal cutter, and will also be used for the transportation of coal. The construction of the proposed pier, will soon commence, the plans of which are now under consideration. The work on the new elevated railroad will be commenced during the early part of spring. A new slope is being sunk, from which the company rely on their great coal supply.

ST. JOHN HARDWAREMEN.

At the annual meeting of the St. John, N.B., Hardware Association, R. B. Emerson, of Emerson & Fisher, was elected president; Wm. Kerr, of Kerr & Robertson, vice-president, and John J. Barry, secretary-treasurer. The annual banquet of the association will be held on January 19.

'TIS IRON NO LONGER.

Resident Engineer Dorking, of The Dominion Coal Co., Glace Bay, has in his office a section of a cast-iron rail that was laid in one of the mines a good deal more than thirty years ago. The mine was filled with water, and remained that way for many years. When it was pumped out by the present owners, the iron had changed and the rail had become as light, or lighter in weight than wood. An analysis was made by a professor from an American college, showing the following result:

Ferrous oxide	39.66
Ferrous sulphate	1.74
Bi-sulphite of iron	5.17
Sesquioxide of magnesia	3.06
Alumina	8.83
Silica	18.06
Carbon	12.77
Volatile hydro-carbon	1.99
Water lost at 110 degrees C.	6.55
Water lost at a red heat	3.07
Sulphide of arsenic	trace
Copper and lead	trace
Specific gravity	2.08
Specific gravity, cast iron	7.21

Excess accounted for trace of metallic iron in the ferrous oxide, silica concentrated to the centre. Carbon and metallic iron outside. Outside of rail feebly magnetic. Inside not magnetic.

WIRE FENCING FOR HARDWAREMEN

The B. Greening Wire Co., Limited, as agents of The Ontario Wire Fencing Co., have placed on the market a cheap wire fencing, in several different widths and styles, suitable for nearly every purpose, which they are endeavoring to sell through the hardware trade. Wire fencing seems to have drifted into the hands of implement agents, but there is still opportunity for the hardwareman to recover his lost ground. This paper has long held the view that the hardware trade "should hold what we have," and the fencing referred to being cheap and thoroughly reliable, gives them the opportunity of recovering their lost ground. The fencing is woven wire and suitable for town lots, churches, schools, villages or farms. The wire fencing suitable for the last-named can be sold four feet high for 35c. per rod, and should command ready sale.

MANITOBA'S FIRST GOLD BRICK.

Mr. Robert Rogers arrived from Rat Portage yesterday, and had in his possession a gold brick from a Manitoba mine, situated six miles from Ingolf. About ten tons of ore were taken out and milled at Keewatin, the result of the run being gold to the extent of \$160. This is understood to be the first bullion ever produced by a Manitoba mining property.—Free Press, Winnipeg.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Gal-
vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 639.
Cable "LeVesconte" Toronto.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for...

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

PARIS ELECTRO PLATING CO.

Manufacturers of

Stove Trimmings, Piano and Organ Trimmings
Piano Stool Feet, Novelties, etc. Bicycle Work
a specialty. Special attention given to Job
Work of all kinds in Brass and Nickel Plating.

We have added a large moulding shop to our establish-
ment, and are making a specialty of fine castings.

PARIS ELECTRO PLATING CO., Paris, Ont.

Quotations gladly given.

The Portland Rolling Mills Co., Limited

Manufacturers of

Refined Bar Iron
Railway Spikes
Pressed Spikes
Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

The machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnern's Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

**Our
Part**

"We do the advertising."

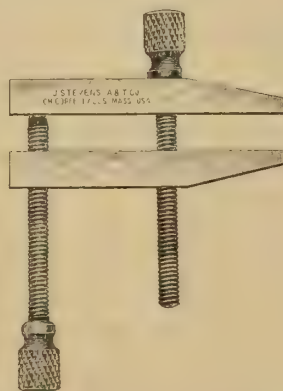
When you
handle "Alabastine" you get your advertising **free**—
we do it for you. You don't have to wait for the de-
mand to come—we create the public interest at the
start. And after the virtues of Church's Alabastine
become known, it sells quickly—all this is **our part**.

Kalsomines and other substitutes for that per-
manent and sanitary Water-Color Wall Coating are
relics of an old-fashioned past—"Alabastine" is the
modern Wall Coating that drives them from the field.
And, too, you can make handy profits with it—that's
your part.

16 beautiful tints and
white. Will not decay
on the wall. Won't rub
off or peel. **Cold** water
and it's ready—anyone
can apply it. No spong-
ing or scraping neces-
sary.

**Church's
Alabastine**

THE ALABASTINE CO'Y, Limited
PARIS, ONT.

**STEVENS FINE TOOLS**

We make a perfect line
of

CALIPERS and DIVIDERS

Also such tools as Surface Gauges, Tool Makers'
Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools. It is also
a valuable hand-book of information for mechanics and people interested in
such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216

Chicopee Falls, Mass., U.S.A.

Carried by our representatives at Toronto and Montreal.



Manufacturers of

Cotton, Jute, Hemp and Flax
Twines and Cordage
Mill Banding and Driving Ropes
Chalk and Fishing Lines
Seine Twine, Hammocks, Tennis
Cricket and Fly Nets
Cotton Rope and Clothes Lines
Plough Lines, etc.

HUTCHISON, SHURLY & DERRETT

1078 BLOOR STREET WEST, TORONTO.

HEATING AND PLUMBING

CRAIG, M'ARTHUR AND CO.'S FAILURE.

A MEETING of the creditors of Craig, McArthur & Co., the insolvent plumbers' supply dealers, Toronto, was held on Wednesday, when the following statement was presented:

LIABILITIES.

Direct—

The Jas. Morrison Co., Ltd., Toronto.....	\$964 27
Toronto Foundry Co., Toronto....	880 60
Jas. Robertson Co., Ltd., Toronto..	853 13
Toronto Steel Clad Bath Co., Toronto.....	713 85
Toronto Hardware Co., Toronto...	626 04
Dominion Radiator Co., Toronto...	533 03
H. S. Howland, Sons & Co., Toronto.....	481 03
M. & L. Samuel, Benjamin & Co., Toronto	343 85
Rice Lewis & Son, Toronto.....	191 98
W. B. Malcolm & Co., Toronto....	144 02
Toronto Granite Co., Toronto.....	125 24
Sundry Toronto creditors, aggregating	1,370 70
Sanitary Mfg. Co., Muncie, Ind....	1,009 80
Burnside Iron Works, Wheeling, Va.	594 63
Athiens & Oil Mfg. Co., Louisville.	323 79
W. B. Scarff & Co., Pittsburg.....	321 88
Syracuse Smelting Works, Syracuse	133 11
Wallworth Mfg. Co., Boston.....	643 84
L. Wolff & Co., Chicago	530 32
Ronald & Johnston, New York	212 03
Thos. Maddock & Sons, Trenton, N. J.....	229 10
Sundry creditors, aggregating.....	842 48
Lock & Blackett, Newcastle-on-Tyne	185 05

Total direct claims..... \$12,353 67

Indirect—

Dominion Bank, Toronto—Paper under discount, \$8,597—will rank for about	2,000 00
Bank of Hamilton, Toronto—Paper under discount, \$185—will rank for about	185 00

Secured—

Frank Smith & Co, Toronto:	
Goods stored in bond.....	\$792 00
Less cash advanced	425 00

Excess contra balance.. \$367 00
\$14,538 67

Preferred—

William H. Cooper, Toronto, rent, as per lease, to Jan. 15, 1899.....	\$168 50
F. F. McArthur, wages	115 34
Chas. Donald, "	27 85
Miss McKinley, "	4 00
James Patterson, "	3 00
Miss VanNorman, "	3 00

Total liability..... \$14,854 36

ASSETS.

Stock—

As per inventory, in store.....	\$4,830 71
" " in bond.....	1,622 23
Cash on hand.....	15 75
Storage, balance contra account excess	367 00

Accounts—

Book debts—Good	\$2,529 54
" Doubtful, \$837.87 at 25 per cent.	209 47
" Bad	2,130 23
	\$4,869 24
Total assets.....	\$9,574 70

SUMMARY.

Liabilities—

As per schedule..... \$14,854 36

Assets—

As above.....	\$9,574 70
Nominal deficiency	5,279 66
	\$14,854 36 \$14,854 36

No definite conclusions were reached by the creditors, but it is likely the stock will be sold.

HOW THE PLUMBER FIXED THE BILL.

There is a plumber in Stillwater who is determined that no one shall get the best of him, and recently he demonstrated to one of his customers that it was useless to throw his bills in the waste basket, according to The Gazette. Some time ago he presented a bill to a well known logger, and just for a joke the logger tore the bill into shreds and deposited the remnants in the waste basket. The plumber watched the proceedings without cracking a smile, but, deep down in his breast, he vowed that the next bill would not be destroyed so easily. Accordingly he secured a large piece of tin and on this the bill was made out.

PLUMBING AND HEATING NOTES.

Lesperance & Terriault, plumbers, Montreal, have dissolved.

The assets of A. J. Martin, plumber, Montreal, have been sold.

Henry Hogarth, of Fiddes & Hogarth, plumbers, Toronto, has been off work for over a week with "the grip."

A NON-FREEZING WATER PIPE.

THF Germans, who are so far ahead of many nations in a certain class of technical skill, have, according to Plumbers' Trade Journal, incorporated into their plumbing practice a non-freezing water pipe, which will save an incalculable amount of annoyance in a single winter.

The purpose of the invention is not only to prevent the water from freezing, but to provide an opportunity for its expansion by cold. Into the iron pipe, as far as it is above the ground, there is inserted a second narrower pipe of thin sheet tin or lead, which is filled with an elastic substance, such, for instance, as rubber. This insertion remains unaffected by the ordinary pressure, but, if the water should be frozen by extreme cold, the elastic insertion is compressed by so much as the volume of water is increased by the freezing.

With the coming of the thaw, the insertion expands again to its original circumference. The object of the tin or lead around the insertion is to prevent an unpleasant taste or odor being imparted to the water. It is said that water pipes provided with such an insertion have withstood a cold test of 40 deg. centigrade, while others that were not so provided invariably burst at that temperature.

AN EXCELLENT PUBLICATION.

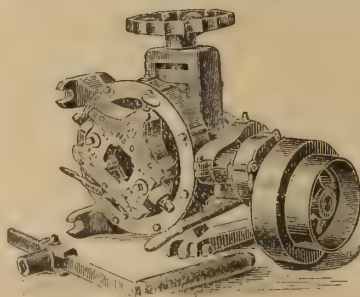
W. M. Langton, Nanaimo, B.C., writes: "I enclose you my cheque for \$4.25 to pay for HARDWARE AND METAL, (an excellent publication) to July next. Trade papers require money to run them same as any other business, and you have been very patient. I have added 25c. for bank charges. Wishing you all a very prosperous New Year."

ARMSTRONG PIPE THREADING

AND CUTTING-OFF MACHINES (Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

TIME TO TAKE STOCK.

THOUGH the months of January and February are the duller months of the year, as far as plumbing contracts are concerned, the master plumbers of Toronto are not idle. Stock-taking is now the order of the day. This is no small undertaking with a plumber who carries a good stock on hand, but, though it entails a good deal of work, there is no question but every master plumber should take a careful inventory of his stock, at least once a year.

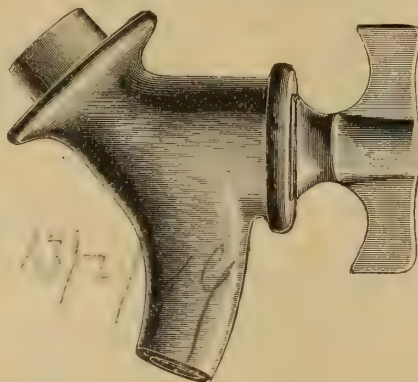
The system of stock-taking in one of the large houses in Toronto is one that might well be followed by all those in the trade. The common lines of stock, such as pipes, joints, etc., are counted, measured and listed by one of the boys. The other supplies, which need more care and accuracy in listing, are counted by a member of the office staff. After a full list is made up, the various goods are divided into separate classes in the stock-book, under the following heads: Plumbers' brass goods, steamfitters' brass goods, gas fixtures, gas globes, steamfitters' cast and wrought iron, malleable iron, soil pipe and fittings, lead pipe, traps and fittings, plumbers' crockery, porcelain and earthenware, and miscellaneous. To further simplify the list the goods are arranged in each class according to style, size and number. For instance, the gas globes are listed according to the numbers by which they are known; gas fixtures are listed according to

the number of globes on the fixture, and the number by which it is known; brass goods, etc., are arranged according to their style and size. A well-arranged stock-book is one of the best things a plumber can commence the spring's activities with.

CAN FAUCET.

The accompanying illustration is the exact size of a 5-16 inch can faucet that is being sold in large quantities all over the world by J. M. Litchfield, 458 Quincy street, Brooklyn, N. Y.

The special feature of this article is its cheapness, and the manufacturers claim



that it is made like and is every bit as good as the most costly. Its construction is simple, and its appearance so neat and handsome as to cause surprise that it is sold so cheaply. Sample and prices will be furnished free upon application to the manufacturer.

TRAIN THE CLERKS.

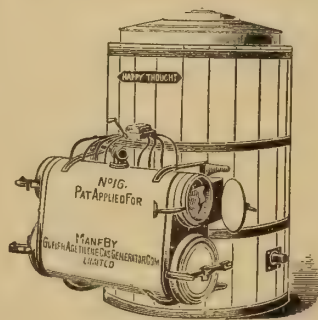
Much fault is found with clerks because of their inability, whether natural or affected, to always realize their opportunities in the selling of goods, says Stoves and Hardware Reporter. In the majority of cases, the merchant has failed to instruct them as he should, and give them explicit directions in regard to the disposal of goods which it is deemed advisable to sell before others. It is granted that all clerks are not capable of being taught, nor would they desire to benefit by the instruction. There are numskulls everywhere. But, before the merchant commences to rail out at them for their shortcomings, he should first ask himself whether he has given them due information which will assist them in carrying out his wishes and instructions. It is especially important at this period that the sales-force should be conscientiously trained, in order to attend carefully and industriously to the acceleration given to trade by the holiday season. Urge upon them the necessity and importance of being quick-witted, expeditious, zealous and yet conscientious. People are universally in a buying mood throughout this entire month, and it would be unfortunate to lose any good opportunity to increase sales and profits. Give the clerks some inducement to encourage their zeal at the same time. They will be more desirous to please and to develop their executive ability to the highest possible pitch, if they have a tangible object in view.

PLUMBERS' Supplies.

We have a new line of Bath Tub Seats at 75c. Send post card for circular.

The **JAMES MORRISON**

Toronto. **BRASS MFG. CO., Limited**



ACETYLENE GAS

Perfect Light Perfect Safety

Our Machine is Automatic. Safe.

Sold only through the local Hardware and Plumbing Trades, etc.

No Peddling.

Write Us.

THE GUELPH ACETYLENE GAS CO. Limited
GUELPH, ONT.

FACTS About Horse-Nails.

We never depreciate the quality of our competitors' goods.

WE DO SAY

That "Monarch" Horse-Nails are made from the best quality of Swedish stock. Are the safest to use, the best to drive, and will hold the shoes on longer and tighter than any other nail made in Canada. This is a strong statement, but testimonials from blacksmiths, which we are constantly receiving, confirm it in every particular.

A PENNY SAVED, IS A PENNY EARNED.

Two-thirds of one cent on each set of shoes is fifty cents on each box of twenty-five pounds of nails.

We are always pleased to quote prices and send samples, and it will pay you to write us before purchasing.

MARITIME NAIL COMPANY, Limited
ST. JOHN, N. B.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d. 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



Write for Latest Catalogues and Samples to

THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

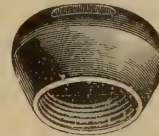
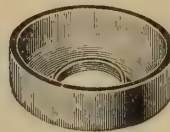
LONDON, E.C.



Stove Trimmings

In BRASS, NICKEL
and BRONZE.

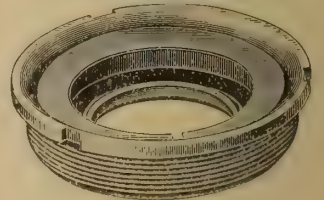
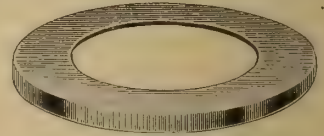
All orders promptly and carefully
executed.



**Sheet Steel
Bicycle Fittings**

OF ALL
DESCRIPTIONS.

Estimates furnished from Blue Prints,
Drawings or Samples.



CATALOGUES FURNISHED ON APPLICATION.

The H. A. MATTHEWS MFG. CO., SEYMOUR, CONN.

ABOUT HORSE-NAILS:—

**"It iz better knot to no quite so mutch,
thann to no a lot, that ain't so."**

With bank and other stocks, there is an accepted standard by which comparisons are made, to judge their relative values; a bank stock is quoted at "par," or above or below par, according to its accepted value by the purchasing public.

With horse nails, as with stocks, there is also a standard of value, which has always been accorded by the the hardware trade in Canada to the "C" brand made by our company. This position has been obtained solely by the undoubted merits of the horse nails sold by us under this trade mark. They represent the results of an experience of thirty-three years in the manufacture of one article; the use of the best quality Swedish charcoal nail rods; adhering to the use of the "hot forged" hammered process; designing the best patterns, which give the maximum of strength with the minimum of weight; in brief, the best—and the best only—in every particular.

When any other makers claim for their horse nails all the points of excellence which are found in our brand, and yet, judged by their own quotations, and the price at which purchasers are willing to buy them, they are found below our "C" brand standard of value, is it not because the quality of the nails are below "par"? If their goods are equal to ours, why don't they command an equal price? The conclusion is a fair one: Simply because they are not worth as much.

We sell to the trade only. Our horse nails have the "C" brand and our name in full on each box; don't accept substitutes if you want the best.

We desire to thank all our patrons for their orders received during the current year, and wish them one and all a Happy New Year.

CANADA HORSE NAIL COMPANY
MONTREAL.

MONEY IN A REPAIR SHOP.

A GENERAL repair shop in connection with a hardware store will be found to pay well and increase one's sales, says a writer in Metal Worker. Employ one or two good mechanics, furnish them with the proper tools, and it will be surprising the amount of business that will be stirred up by reason of being able to do odd jobs. First comes the repairing of stoves of all kinds, then bicycles, which is not difficult work if the shop and proper tools are convenient; then, too, if you are in a city a great deal of simple pipe fitting or plumbing can be done. The actual returns for the labor charges are not so large, though it pays, but such work leads to the sale of just so much material in connection with the work. The necessary parts to fix the stove, the bicycle, or the pipe valve and fittings needed to connect gas to a stove all bring a good round profit, and will usually amount in total to three or four times the amount of the labor charges, and it is all such stuff as would not have been sold if the merchant were not prepared to do the labor in connection with it.

Where stoves are sold a man or two is required for setting them up, blacking, etc., and it adds but little to one's ordinary expense to get better men for such work, who are mechanics, and will work into all sorts of repairing. A man familiar with stoves was taught to cut threads and do small jobs, and to repair bicycles, so that this man is now quite a valuable adjunct to the business. His last job on a bicycle amounts to \$7.50, only \$1.50 of which is labor, the balance being for crank, seat post, bearings, saddle, etc., which it is known would not have been sold if the repair shop had not been in existence.

Labor charges are sometimes unsatisfactory to the customers when the bill is presented, as repair work usually requires more time than is counted on by your customer. It is a good rule to charge double what your labor costs you, and even then, with the replacing of tools and lost time you come out with only a fair profit on the labor account. Overlook the difficulties and put in a repair shop, especially if you sell stoves and bicycles, for it pays in more ways than one.

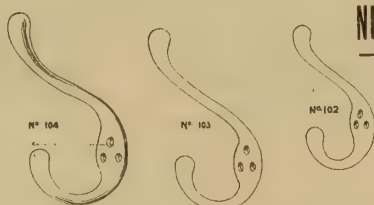
A SATISFIED HARDWAREMAN.

J. J. Metcalfe, hardware dealer, Shelburne, is one of the most satisfied men HARDWARE AND METAL has met for some time. Asked how business was he said: "It's all right. We are going to enlarge our premises next summer to meet the increase of trade; in fact, everybody does well here because Shelburne is a first-class town."

55 Years' Experience.

WARNOCK'S Axes and Edge Tools have been on the Canadian market since 1844. They are unequalled in **QUALITY AND FINISH**. Always specify Warnock's Tools when buying.

James Warnock & Co., Galt, Ont.



NEW BRASSIC GOODS NEW PROCESS NEW PRICES

"Gunn's" Patent Detachable Castors,
Hat and Coat Hooks, Drawer Pulls,
General Cabinet Ironmongery.

THE GUNN CASTOR CO., Limited
Birmingham, Eng.
KNOX HENRY,
Canadian Agent, 220 1/2 Board of Trade, MONTREAL

WEEDER..... EDGER

THE.... CARPENTER Grass Hook.

"THREE TOOLS IN ONE."

PACKED IN DOZEN CASES.

FOR SALE BY Hardware Jobbers.

F. E. CARPENTER,
Sole Manufacturer
105 PARK PLACE,
NEW YORK CITY.

"THREE TOOLS IN ONE."

WEEDER..... EDGER

"THREE TOOLS IN ONE."

WEEDER..... EDGER

Woven Wire Fencing

For ... 1899

The best and cheapest Fence on the market.
If you can sell fencing, write us for full particulars.

THE B. GREENING WIRE CO., Limited

Selling Agents for the
Ontario Wire Fencing Coy's Goods.

Hamilton, Ont., and Montreal, Que.

Rodgers' Cutlery

Has stood the test of over
two centuries. None genuine
without our Corporate Mark—
granted 1682.



CURRENT MARKET QUOTATIONS.

January 13, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 24
Straits	0 23½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X., "	6 25
I.X.X., "	7 50
J. R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25
Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50
Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X., "	4 25
I.X.X., "	5 00
I.X.X., "	5 75
D.C., 12½x17	3 01
D.X., "	3 75
D.X.X., "	5 75

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual sizes	3 00
I.C., special sizes, base.	3 15
20x28.	6 00
Charcoal Plates—Terne.	6 25

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 00
I.X., Terne Tin	7 50
I.C., Orion	6 00
I.X., Orion	7 25

Charcoal Tin Boiler Plates.	
Cookley Grade—	Per lb.
X.X., 14x56, 50 sheet bxs	
" 14x60	0 05½
" 14x65	0 06

Tinned Sheets.	
72x30 up to 24 gauge.	0 05½
" 26	0 06½
" 28	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price
from factory	1 45
Refined	1 50
Horse Shoe	1 65
Band	1 65
Hoop	2 00
Swedish	4 00
Sleigh Shoe Steel	1 75
Tire Steel	1 75
Machinery	1 85
Cast Steel, per lb	0 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb	0 10½
Tank Plates, 1-5 and thicker.	2 00
Boiler Rivets	4 50

Boiler Tubes.

1½ inch	0 06½
2	0 07½
2½	0 09½
"	0 11

Steel Boiler Plate.

3-16 inch	2 00
"	1 90

¾ inch and thicker..... 1 75

Sheet Iron.

16 gauge and heavier	2 50
18 to 20 gauge	2 25
22 to 24	2 30
26	2 40
28	2 50

Canada Plates.

All dull, 52 sheets	2 25
Half polished	2 35
All bright	2 85

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	
\$2.31 to \$3.49; ½ inch, \$3.31 to \$4.41; ¾ inch,	
\$2.80 to \$2.87; 1 inch, \$3.90 to \$3.93; 1½ inch,	
\$5.15 to \$5.21; 1½ inch, \$3.95; 2 inch, \$4.80;	
Galvanized ½ inch, \$3.95; ¾ inch, \$4.80;	
1 inch, \$5.75; 1½ inch, \$9.15; 1½ inch, \$11.75;	
2 inch, \$6.00. Cast soil, 2, 3, 4 and 5 inch	
60, 10 and 5 p. c.	

Galvanized Iron.

	Comet.	Amer.	Queen's
16 gauge	3 15	3 75	Head.
18 to 24 gauge	3 25	3 30	4 00
26	3 50	3 55	4 25
28	3 75	3 90	4 50

Chain.

Proof Coil, 3-16 in., per 100 lbs	25
I.X., "	4 65
I.X., "	3 75
I.X.X., "	3 25
I.X.X., "	2 85
D.C., 12½x17	2 75
D.X., "	2 75
D.X.X., "	2 63
" ¾ "	2 75
" 1 " "	2 83

Trace, per doz. pairs.	3 60
Jack chain, iron, single, per	
doz. yards.	0 13
Jack chain, double, per doz.	
yards	0 15
Jack chain, brass, single, per	
doz. yards.	20

Copper.

Ingot.	
English B. S., ton lots	0 14
Lake Superior	0 14½

Bolt or Bar.	
Cut lengths, round, ½ to ¾ in.	0 20
" round and square	0 22
1 to 2 inches.	0 19½
NOTE.—Complete lengths about 15 feet	
from 18½ to 19 cents a pound.	

Sheet.	
Untinned, 14 oz., and light, 16	
oz., 14x48 and 14x60	0 17
Untinned, 14 oz., and light, 16	
oz., irregular sizes.	0 17
NOTE.—Extra for tinning, 2 cents per	
pound, and tinning and half planishing 3	
cents per pound.	
Planished and tinned, 14x48	
and 14x60	0 25

Braziers. (In sheets.)	
4x6 ft. 25 to 30 lbs. ea. per lb.	0 18
" 35 to 45	0 17½
" 50-lb. and above,	0 17

Boiler and T. K. Pitts.	
Plain Tinned, per lb	0 21
Spun, per lb.	0 25

Wire.

Pure, in coils—	
From 1 to 20 gauge, 12½ p. c. off list.	
From 20 gauge up, 12½ p. c. off list.	

Brass.

Roll and Sheet, 14 to 30 gauge, 25 to 27½	
p. c. off list.	
Sheet, hard-rolled, 2x4	18
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 05½
Domestic	0 04½

Zinc Sheet.

5 cwt. casks	0 07½
Part casks	0 07½

Lead.

Imported Pig, per lb	4 00
Domestic, per lb	0 03½
Bar, 1 lb.	0 05
Sheets, 2½ lbs. sq. ft., by roll.	0 05
Sheets, 3 to 6 lbs., per sq. ft.,	0 04½

NOTE.—Cut sheets ½ cent per lb. extra.
Pipe, by the roll, usual weights per yard, lists
t 7 cents per lb. and 25 per cent. discount.
NOTE.—Cut lengths, net price, waste pipe.
in 8-ft. lengths, lists at 7½ cents.

Solder.

Bar half-and-half	Per lb.
Refined	0 13½
Wiping	0 13
"	0 12½

NOTE.—Prices of this graded according to
quantity. The prices of other qualities or
solder in the market indicated by private
brands vary according to composition.

Antimony.

Cookson's, per lb	0 10
Other makes, per lb.	0 09

White Lead.

Pure, Assoc. guarantee, ground in oil,	Per cwt.
25 lb. irons	5 75
Refined	5 37½
No. 1 do	5 00
No. 2 do	4 62½
No. 3 do	4 25
No. 4 do	4 25
Robertson's Chemically Pure	5 75
Munro's Select Flake White	6 00
Elephant and Decorators' Pure	5 75
Brandram's B. B. Genuine	7 75
" No. 1	7 00
James genuine	6 95
" No. 1	6 45

White Zinc Paint.

Elephant Snow White	0 08
Pure White Zinc	0 08
No. 1	0 06
No. 2	0 05

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 05
Chrome Yellow	0 11
Golden Ochre	0 05
French	0 05
Marine Ochre	0 09
" Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	
cwt	1 35
Yellow Ochre (J.F.L.S.), bbls.	
per cwt	2 75
Yellow Ochre (Royal), per	
cwt	1 10
Brussels Ochre	2 00
Venetian Red (best), per cwt.	1 80
English Oxides, per cwt.	3 00
American Oxides, per cwt	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
" Umber, "	0 10
" do. sw. "	0 09
Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½
Ultra marine Blue in 28-lb.	
boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks.	0 11½
50 lb. drums	0 12
1 lb. packages	0 13
½ lb. "	0 14½
1-lb. tins.	0 13½

Sulphate of Copper.

Casks, for spraying, per lb.	0 04½
25-lb. lots, do. per lb.	0 05

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 85
Bulk in bbls., per 100	1 65
Bulk in less quantities.	1 80
25-lb. tins, 4 in case.	2 05
12½-lb. tins, 8 in case.	2 30

Quotations f.o.b. Toronto—10c. per 100 lbs.
extra Hamilton, London Guelph. For quantities
less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do.	2 50
Body Varnish	4 50
Furniture Varnish	0 85
Extra do.	0 90
Demar Varnish	1 60
Hard Oil Finish	1 40
Orange Shellac Varnish	2 00
White Shellac	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.

Raw, per gal. net.	0 50
Boiled, per gal. net.	0 53

Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net.	0 65
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots.	0 11½

Cod Oil, Etc

Cod Oil, per gal.	0 50
Pure Olive.	1 20
" Neatsfoot.	90

Glue.

(In bbls.)	
Common	0 08½
French Medal	0 15
Cabinet, sheet	0 12
White, extra	0 18
Gelatine	0 22
Strip	0 16
Coopers	0 19
A1 clear	0 09
Liquid Glue—F. LePage's, discount 20 to 25	
per cent off list; Munn's, discount 25 to	
30 per cent. off list.	

HARDWARE.

Ammunition.

Cartridges.	
R. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. Amer.	

Central Fire Cartridges, pistol sizes, Dom 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B. B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
 Shot.
 Can. 1/2 lb., common, 7 1/2 per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in 1/2-lb bags, 1 00
 Best thick brown or grey felt wads, in 1/2 lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 55
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, beat white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Anvils.
 Per lb., 0 10 0 12 1/2
 Anvil and Vice combined, 4 50
 Wilkinson & Co.'s Anvils, lb., 09 0 09 1/2
 Wilkinson & Co.'s Vices, lb., 09 1/4 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

Axles.
 Sewing, per gross, 0 65 1 59
 Pegging, " 0 65 1 25
 Brad, " 0 85 1 60
 " handled, per gross, 3 60 30
 Saddlers', per gross, 0 45 1 60

Awl Hafts.
 Patent Peg, per gross, 7 25 8
 " Sewing, per gross, 7 25 8

Awl and Tool Sets.
 Millar's Falls, per doz., 2 80 3 30

AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, " 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Axle Grease.
 Per gross, 6 00 13 00

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list.
 Boxing extra

Anti-Friction Metal.
 "Tandem" A, per lb., 0 19
 " B, " 0 16
 " C, " 0 10 1/2
 " Monarch" 1, " 0 21
 " 2, " 0 15
 " 3, " 0 10
 " Canadian, " 0 08 1/2
 Magnolia Anti-Friction Metal, per lb., 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, 5 50 8 00
 " Peterboro', discount 50 per cent.

Cow.
 American make, discount 66 2/3 per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.

House.
 American, each, 1 25 3 00
 American, per, 0 35 0 40

Bellows.
 Hand, per doz., 3 35 4 75
 Moulders', per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belt.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bench Stops.
 Per doz, 5 00 6 00

Bits.
 Auger.
 Gilmour's, discount 65 and 5 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.
 Car.

Clamps.
 Gilmour's, 47 1/2 to 50 per cent.

Expansive.
 Clark's 40 per cent.
 Excelsior, 10 per cent.
 Gimlet.
 Clark's, per doz, 0 65 0 90
 Diamond, Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Anner, per doz, 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 00

Blind and Bed Staples.
 All sizes, per lb, 7 1/4 0 12

Bolts.
 Carriage, dis., 60 and 10 to 70 p.c.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Elevator, dis., 35 to 40 per cent.
 Machine, dis., 70 p.c.
 Coach Screws, dis. 70 and 10 p.c.
 Plough bolts, 60 p.c.

Boring Machines.
 Complete, with augers, each., 5 00 7 50

Braces.
 Barber's, 6 00 7 75
 Barber's Ratchet, 10 00 11 00
 Farmers, 2 00 2 75
 Millar's Falls, 15 50 29 00

Brackets.
 Shelf.
 Japanned Canadian, per doz, 0 50 3 40
 Berlin Bronze Canadian, 0 85 3 20

Broilers.
 Light, dis. 65 to 67 1/2 per cent.
 Reversible, dis., 65 to 67 1/2 per cent.
 Vegetable, per doz., dis. 37 1/2 per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City, " 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Butts.
 Brass.
 Wrought Brass, dis., 17 1/2 p.c. revised list.

Cast Iron.
 Loose Pin, dis. 70 per cent.

Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Can Openers.
 Acme, per gross, 9 00 10 00
 Sardine Scissors, per doz, 3 75 4 50

Card.
 Horse, per doz., 0 60 1 00

Carpet Stretchers.
 American, per doz, 1 00 1 50
 Bullards, per doz, 6 50

Carpet Sweepers.
 Bissell, per doz, 22 50
 World, " 21 75
 Daisy, " 24 00
 Star, " 18 00
 Crown Jewel, per doz., 29 00
 Grand Rapids, " 24 00 33 00

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57 1/2 per cent.
 Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
 Nos 31 and 32, per gross, 8 50 50

Cement.
 Canadian, Portland, 2 50
 English, " 2 85
 Belgium, " 2 75
 Canadian hydraulic, 1 20

Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt, 0 60 0 65
 Red, " 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 American, dis. 75 per cent.
 Canadian, dis. 40 and 5 per cent.
 Tanged firmer, per dc, 0 85 4 00

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock,
 Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clamps.
 Judds', dis. 20 per cent.
 Stearn's, per doz, 3 00 10 00

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain, 3 25
 " embossed, 3 50

Coffee Mills.
 Box, 3 60 13 00
 Side, 3 60 4 00
 Enterprise, No. 0, 1 35
 " No. 2, 70

Compasses, Dividers, Etc.
 American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 25 per cent.

Door Springs.
 Torrey's Rod, per doz., (15 p.c.), 2 00
 Coil, per doz, 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.
 American, dis. 70 and 10 per cent.
 Canadian, dis. 25, 50 and 10 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz., 16 00 51 50
 P. S. & W., dis. 40 per cent.

DRILL BIT.
 Morse, dis. 37 1/2 to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz, 85 1 70

FAWCETS.
 Cork Lined, per doz., 0 30 0 35
 Wine, per doz., 1 30 3 25
 Star, " 2 80 3 90
 Fenn's Corkstops, No. 2, per dozen, 1 70
 Petroleum, per doz., 4 50 6 50

FILES.
 Globe File Mfg. Co.'s dis., files, 30 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.
 Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27 1/2 per cent.
 American, 60 to 60 and 5 per cent.
 Great Western, 60 and 10 per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FLUTING MACHINES.
 Each, 0 60 2 00

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, 10 and 5 p.c. revised list.

FREEZERS.
 Ice Cream.
 Gem from \$1.25 to \$7 net.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepherd's Queen City, dis. 15 per cent.

FRY PANS.
 Acme, dis. 65 to 67 1/2 per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.
 Window.
 Box Price.

Star.
 Size United Inches.
 Under 25, 1 80 3 50 5 00
 26 to 40, 1 95 3 80 6 00
 41 to 50, 4 20 6 75
 51 to 60, 4 50 8 00
 61 to 70, 4 80 8 75
 71 to 80, 5 20 9 75
 81 to 85, 5 80 10 75
 86 to 90, 6 80 13 00
 91 to 95, 14 75
 96 to 100, 16 75
 101 to 105, 18 75
 106 to 110, 22 75

GLUE POTS.
 Tinned, each, 0 30
 Enamelled each, 0 55

GRINDSTONE FIXTURES.
 Per doz., 3 60 4 00

HALTERS.
 Rope, 3/4 per gross, 8 25 8 5
 " 1/2, " 9 25 9 50
 " 1/4, " 11 00 11 25
 Leather, 1 in., per doz., 3 87 1/2 4 00
 " 1 1/4 in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27 1/2 per cent.

Tack.
 Magnetic per doz., 1 10 1 20
 Canadian, per lb, 0 07 1/2 0 08 1/2

Sledge.
 Ball Pen.
 English and Can., per lb., 0 22 25

HANDLES.
 Axe, per doz., net, 1 50 2 50
 Store door, per doz, 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Chisel.
 Firmer, per gross, 3 00 4 50
 Socket Firmer, per gross, 3 25 8 00
 Socket Framing, per gross, 3 75 5 00

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz., 1 00 25

Plane.
 American, per gross, 3 1

Hammer and Hatchet.
 Canadian, 45 per cent.

Cross-Cut Saw.
 Canadian, per pair, 0 13 1/2 0 20

HANGERS.
 Door, 4 and 5 inch, per pair, 0 40 0 50
 Lanes, 6 1/2 per cent.

HATCHETS.
 Canadian, dis. 40 to 42 1/2 per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p.c.

Light T and strap, 70 and 10 p.c.
 Heavy, per lb, 0 03 1/4 0 04 1/4
 Screw hook and hinge—
 6 to 12 in., per 100 lbs., 3 15
 14 in. up, per 100 lbs., 2 35

Per doz. set
 Screw Eureka, 1 13 1 80
 Gate, Clark's, 1 50 2 20
 " Shepard's, dis. 50 to 60 per cent.

Per gro. pair
 Spring, 9 50
 " Shepard's Samson, 1 20

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.
 Cast Iron.
 Bird Cage, per doz, 0 50 1 10
 Clothes Line, per doz, 0 27 0 63
 Harness, per doz, 0 72 0 88
 Hat and Coat, per gross, 1 00 3 00
 Chandelier, per doz, 0 50 1 00

Wrought Iron.
 Wrought Hooks and Staples, Can., dis. 47 1/2 per cent.

Wire.
 Hat and coat, dis. 60 to 60 and 10 p.c.
 Belt, per 1,000, 0 60 0 70
 Screw, bright, dis. 65 and 10 per cent.

HORSE NAILS.
 "C" brand, 50 p.c. dis.
 "M" brand 50 p.c.
 "P. B.", dis. 50 p.c.
 Canadian, 50 and 20 p.c., countersunk head

HORSE SHOES.
 F.O.B. Montreal F.O.B. Toronto
 Iron Shoes, 3 15 3 25
 Light, medium, and heavy, 3 40 3 50
 Snow shoes, 3 40 3 50

Steel Shoes.
 Light, all sizes, 3 35 3 45
 Extra light, 4 50 4 60
 Toe weight (steel), 5 50 5 60

***Also Hamilton, London, Guelph, St. John, Halifax.**

ICE PICKS.
 Star, per doz., 3 00 3 25

KETTLES.
 Brass spun, 7 1/2 p.c. dis. off new list.
 Copper, per lb., 0 30
 American, 60 and 10 to 65 and 5 p.c.

KEYS.
 Lock, Can., dis. 50 p.c.
 Cabinet, trunk, and padlock,
 Am. per gross, 1 60

KNOBS.
 Door, japanned and N.P., per doz., 0 90
 Bronze, Berlin, per doz., 2 75 3 25
 Bronze Genuine, " 6 00 9 00
 Shutter, porcelain, F. & L. screw per gross, 1 30 4 00

KNIVES.
 Clauss, bread, cake, and paring knives, \$7.00
 doz. sets net, 10 per cent.
 Christie, bread, cake, and paring knives, \$7.00
 doz. sets, with 10 p.c. off.
 Hay knives, spear point, L or T handle, 60
 10 and 5 per cent.
 Lightning, per doz., 6 50 8 40
 Heath's, \$7.75 net.

LADLES.
 Melting, per doz., 1 70 4 50

LEMON SQUEEZERS.
 Porcelain lined, per doz, 2 20 5 60
 Galvanized, " 1 87 3 85
 King, wood, " 2 75 2 90

King, glass,	4 00	4 50
All glass,	1 20	1 30

LINES.

Fish, per gross.....	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz....	1 75	7 50
Cabinet,		
Eagle, dis. 30 p.c.		

PADLOCKS.

English and Am., per doz....	50	6 JC
Scandinavian,	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Flat head, discount 25 p.c.		
Round Head, discount 2½ p.c.		

MALLET.

Tinsmiths', per doz.....	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.....	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.....	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MINCING KNIVES.

American, per doz.....	0 42	2 35
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MOLASSES GATES.

Stebbin's Patent, dis. per cent., 77½ per cent.		
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NAILS.

Quotations are:	Cut.	Wire.
2d. and 3d.	\$2 75	\$2 80
3d.	2 40	2 45
4 and 5d.	2 15	2 20
6 and 7d.	2 05	2 10
8 and 9d.	1 90	1 95
10 and 12d.	1 85	1 90
16 and 20d.	1 80	1 85
30, 40, 50 and 6d. (base). .	1 75	1 80
Steel C. It Nails 10c. extra.		
Brads and finishing nails, special sizes, 80 p.c. from new list.		

NAIL PULLERS.

German and American.....	1 85	3 50
--------------------------	------	------

NAIL SETS.

Square, round, and octagon, per gross.....	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 67½ per cent. for imported, 55 per cent. for McMullen's.		
---	--	--

OIL.

Canada refined oil (Toronto).....	0 14	
Carbon safety	0 16½	
American w. w.	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.....	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.....	1 25	3 50
Brass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIERS.

Galvanized, per doz.....	1 85	3 00
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PENCILS.

Dixon's, per gross.....	1 00	4 25
Carpenter.	2 25	3 60

PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.....	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½ to 4	100 00	
No. 56 Hand Machine, range 2½ to 6	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.....	2 00	5
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz..	5 00	9 00
German, per doz.....	0 60	2 60

PLUMBS AND LEVELS.

S. R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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POPPERS.

Corn, square, per doz.....	1 35	2 00
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PRUNING SHEARS.

Per doz	4 00	5 50
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PULLEYS.

Hothouse, per doz.....	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.....	0 35	2 50

PUMPS.

Canadian cistern.....	1 40	2 25
Canadian pitcher spout.....	1 15	2 00

PUNCHES.

Saddlers', per doz.....	1 00	1 85
Conductors,	9 00	15 00
Tinners' solid, per set.....	0 00	0 72
" hollow, per inch.....	0 00	1 00

RAIL.

Barn door, per foot.....	0 02½	0 02½
Sliding door,	0 03½	0 03½
Lanes,	0 02½	

RAKES.

Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p. c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p. c.		
Globe File Co.'s rasps, 6½ and 10 to 70 p. c.		
Toronto File Co.'s rasps, 60 and 10 to 70 p. c.		
Heller's Horse rasps, 5½ to 50 and 5 p. c.		

RAZORS.

Geo. Butler & Co.'s, per doz..	8 00	18 00
Boker's,	7 50	11 00
Wade & Butcher's,	3 60	10
Arbez's,	9 00	18
Theile & Quack's,	7 00	12

RAZOR STROPS.

Currier's, per doz.....	1 25	3 60
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RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc. (Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and p.c.		
Copper Rivets & Burrs, 45 p.c. dis. in ½-lb. boxes and cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
------------------------------------	--	--

ROPE, ETC.

	Sisal.	Manilla
7-16 in. and larger, per lb. 9½	10½	10½
¾ in.	10½	11
½ and 5-16 in.	10½	11½
Cotton	13	
Russia Deep Sea	14½	
Jute	6½	7½
Lath Yarn	8½	
New Zealand Rope	9½	

RULES.

Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.....	0 62½	1 00
N.P., per set.....		90

SAD HEATERS.

Dome, Shepard's, per doz.....	4 75	5 00
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SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.....		

SASH CORD.

Per lb.....	0 20	0 50
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SASH LOCKS.

Triumph and Morris, dis. 37½, 40 percent.		
Kempbell's, dis. 40, 62½ per cent.		
Canadian, dis. 45, 50 per cent.		

SASH WEIGHTS.

Sectional, per 100 lbs.....	1 40	1 75
Solid,		1 25

SAWS.

Crosscut, McMillan & Haynes, per doz.....	0 40	0 70
'Empire,' McMillan & Haynes, per ft.....		0 70
Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 to 40 and 10 per cent.		
Crosscut, Disston's, per ft.....	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.....	0 75	2 75
" frame only.....		0 75

SAW SETS.

"Lincoln," McMillan & Haynes, per doz.....	6 00	7 50
Whiting.....	5	7 00

SCALES.

Gurney Scales, 50 p.c.		
R. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
Dominion, 60 p.c.		
Richelieu, 60 p.c.		
Chatillon Spring Balances 25 p.c.		

SCRAPERS.

Box, per doz.....	2 10	4 50
Boot,	0 40	3 50

SCREENS.

Door, patent, per doz.....	6 50	11 00
Window, per doz.....	2 00	2 75

SCREW DRIVERS

Sargent's, per doz.....	65	90
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SCREWS.

Wood, F. H., iron, and steel, dis. 87½ p.c.		
Wood, R. H., " dis. 80 p.c.		
" F. H., brass, dis. 82½ p.c.		
Wood, R. H., " dis. 75 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.....	3 25	4 00
iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.....	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS.

B. & W., japanned, dis. 75 p.c.		
B. & W., N.P., dis. 65 p.c.		
Seymour's, dis. 60 p.c.		
Etna, dis. 75 to 75 and 10 p.c.		
Heinisch, dis. 60 p.c.		
Bristol, japanned, 80 p.c.		
N.F., dis. 70 p.c.		
Clauss, full nickel, 60 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHEAVES.

Sliding door, per set.....	0 77	1 40
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SHOVELS AND SPADES.

Canadian, dis. 40 and 10 to 45 and 2½ p.c.		
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SIEVES.

Wood rim, black, per doz....	1 05	1 10
" tinned,	1 25	1 35
Tin rim, per doz.....	2 30	2 45
" black.....	1 85	2 25

SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb	0 25	
--------------	------	--

WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
------------------------------	--	--

SPOKE SHAVES.

Wood, English	1 80	5 00
ron, American.....	1 35	2 35

SPOONS AND FORKS.

Tea spoons, per gross.....	7 50	12 00
Dessert,	21 00	00 00
Table,	30 00	30 00
Dessert Forks,	24 00	00 00
Medium	27 00	00 00
Table	36 00	00 00

SQUARES.

Iron, per doz.....	1 65	2 9
Steel, dis. 70 per cent. revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	2 00	
Bright.....	1 90	

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 6c		
2nd grade, 3 to 10-ft., per foot, 10c.		

STOCKS AND DIES.

American, dis. 25 p.c.		
------------------------	--	--

STONE.

Washita, per lb.....	0 28	0 60
Hindustan,	0 06	0 07
" slips, per lb.....	0 09	0 09
Labrador.....	0 13	
" Axe,	0 15	
Turkey	0 50	
Arkansas	0 50	
Water-of-Ayr	1 50	
Scythe, per gross.....	3 50	5 00
Grind. per ton.....	15 00	18 00

Stove Polish.



No. 4-3 dozen in case, net cash	\$4 50	
No. 6-3 dozen in case,	7 50	

TACKS, BRADS, ETC.

TACKS, BRADS, ETC.	
Cheese-box tacks, blue, 80 and 20 p. c.	
Trunk tacks, black, 80 and 12½ p. c.	
" tinned, 80 and 12½ p. c.	80
B. B. E. iron carpet, blued.....	80
" tinned.....	80
R. B. E. iron carpet, bright or blued (in keys)	40
R. B. E. iron carpet, tinned.....	45
B. B. E. cut tacks (in bulk).....	80
" " ¼ weights, 4 to 14....	50
" " 4 to 10.....	55
Swedes, cut tacks, genuine, blued and tinned, bulk.....	80
Swedes, upholstery, 80 and 20.	
Swedes, "	



WELLAND CANAL.

TENDERS FOR SUPPLIES.

SEALED TENDERS for Supplies, addressed to the Superintendent Engineer, Welland Canal, St. Catharines, will be received until the evening of January 17th, 1899, for the supply and delivery of various articles of Tinware, Hardware, Fuel, Oil, etc., for use on the Welland Canal and its branches, for the year 1899.

Forms of tender and other information can be obtained at the Superintendent Engineer's Office, St. Catharines, on and after December 24th, 1898.

The lowest or any tender not necessarily accepted.

L. K. JONES, Secretary,
Dept. Railways and Canals.

Ottawa, December 24th, 1898.

Newspapers inserting this advertisement without authority from the Department will not be paid for it. (2)

ISLAND CITY Paint and Varnish Works

Manufacturers of . .

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

THE PRESS CLIPPING BUREAU

Reads every newspaper in Canada and clips therefrom all articles of a business or personal nature of interest to subscribers in this department.

Politicians can obtain from it everything the papers say about themselves on any subject in which they are interested. Business men learn of new openings for trade, pointers to sell goods, addresses of people likely to become buyers, tenders wanted, stocks for sale or wanted, reports of new industries or stores, etc.

Terms—\$5 per hundred clippings: \$40 per thousand, payable in advance; but a yearly contract will be found the most satisfactory.

We have also lists of firms in every branch of trade in the Dominion, the professions, club members, society, etc., and we are prepared to address and mail circulars or letters to these at any time.

**THE PRESS CLIPPING
BUREAU . . .**

Board of Trade, Montreal

CHARLES F. CLARK,
President.

J. CHITTENDEN,
Treasurer.

ESTABLISHED 1849.

THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,

Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

TORONTO OFFICE.

McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

STEEL STAMPS

We are the largest manufacturers of
STEEL STAMPS in Canada.

HAMILTON STAMP AND STENCIL WORKS

Send for Quotations

Hamilton, Ont.



Gives universal satisfaction. Every blade stamped with our name or trade mark we guarantee to be made of the best steel.

**E. F. WALTER & CO.
MONTREAL**

BELLEVILLE BUSINESS COLLEGE.

ESTABLISHED
1889.

Students have a larger earning power who acquire the following lines of preparation under our efficient system of training. It has no superior.

1. Bookkeeping, 4. Telegraphy, Commercial
2. Shorthand, and Railway Work,
3. Typewriting, 5. Civil Service Options.

Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

Address :
Belleville, Ont.

J. Frith Jeffers, M.A.
Principal.

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.

SEND FOR
CATALOGUE.

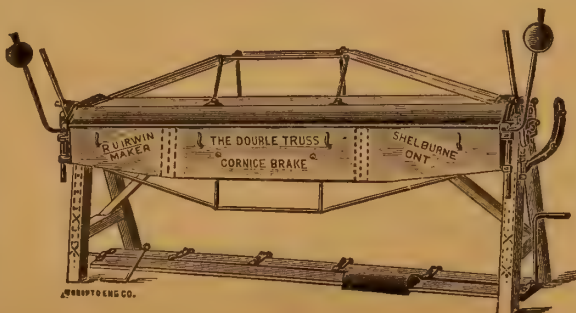


Forehand Arms Co.

Manufacturers of
the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. SHELburne, ONT.

The Ontario Mercantile Agency (Limited)

18 Wellington Street East, TORONTO.

Collects accounts anywhere. Fees for current accounts 10 per cent. of amount collected. No fee less than \$1. Prompt returns. Report to you monthly. References given. Try us.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

**AIKENHEAD HARDWARE CO.
Toronto.**

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

Awarded
By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895

HAVE YOU TRIED IT?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM
HOT or COLD WATER and AIR.

Packs equally well for all.

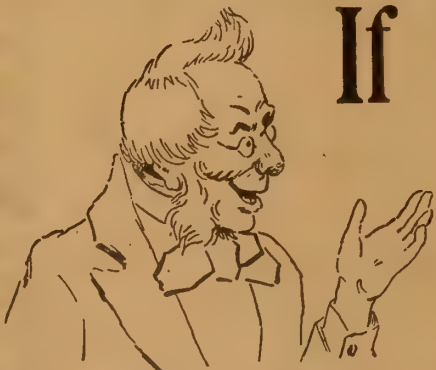
There is no Packing made that will last as long or withstand
as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.
OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.



If you could only see

how pure all the ingredients
of our ready-mixed paints
are, and how carefully they
are ground and mixed, you would commence to
see how it is they do such truly wonderful work,
and why everyone is so particular to have this
brand---"Robertson's."

The **JAMES ROBERTSON CO., Limited** 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

Sterling Value
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JANUARY 21, 1899.

NO. 3



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267 West St., New York

True to Gauge.

Sheet Iron cannot be rolled absolutely uniform
in thickness, but "Queen's Head" varies less
than any other brand in the market. It has
established the standard for weight, and the
following average weight of sheets can be
safely relied upon :



CANADA

	72 x 24	30	36 in.	96 x 24	30	36 in.	
24 Gauge	12 3/4	16	19 1/4	17 1/4	21 1/2	25 3/4	lbs.
26 "	9 1/4	11 1/2	13 3/4	12 1/2	15 1/2	18 1/2	"
28 "	8	10	12	10 3/4	13 1/2	16 1/4	"

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

Canada's Largest Radiator Manufacturers

THE PRIDE OF POSSESSION
BRINGS CONTENTMENT.

Use only

Safford Radiators

...and peace will be yours.

No { BOLTS
PACKING
LEAKS

MADE ONLY BY

The Dominion Radiator Company

TORONTO

Montreal, Quebec, St. John, Winnipeg, Vancouver.



Safford
Favorite

RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Bath=Room Help



Do you want to know how to use a small amount of hot water and yet keep it hot in the Bath Tub—how to save money and yet get an absolutely sanitary and very handsome Bath Tub—how to buy a Bath Tub that you can't wear out and that won't chip or crack—how to get a Bath Tub of the highest quality that is all ready to set up without further expense to you?

Then send for our illustrated booklets that tell all about that "Bath-Room Help"

The price for it complete is but \$17.

**The
"Duplex"
Bath**

The Toronto Steel-Clad Bath and Metal Co. Limited,
125-127 Queen St. East, Toronto

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN
Toronto, RICE LEWIS & SON
Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. O. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO,

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

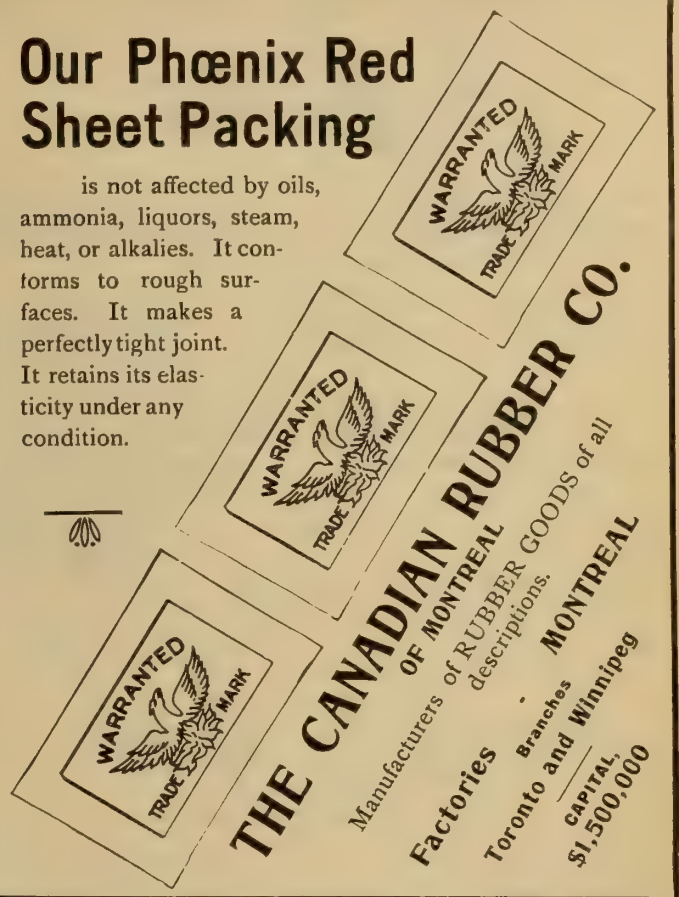
Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

J. K. MACDONALD,
Managing Director

Our Phoenix Red Sheet Packing

is not affected by oils, ammonia, liquors, steam, heat, or alkalis. It conforms to rough surfaces. It makes a perfectly tight joint. It retains its elasticity under any condition.



OTHER TOOLS ARE VERY GOOD TOOLS, BUT

"YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

Sold in Canada by _____

CAVERHILL, LEARMONT & CO.	-	-	-	MONTREAL
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North Bros. Mfg. Co.
Philadelphia, Pa., U.S.A.

1899. 20TH YEAR

Rambler**GORMULLY & JEFFERY
MFG. CO., CHICAGO****Bicycles**

Seven Different Models

30-inch WHEELS

28-inch WHEELS

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SHELBY, OHIO****Bicycles**

Twelve Models

JUVENILES

28-inch WHEELS

\$25.00 to \$30.00**\$35.00 \$40.00 \$45.00**

Rambler and Ideal Bicycles make the best and most complete line for country agents to handle. Our travellers are now on the road with samples. Drop us a card, if you wish to be called on.

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**Sewall & Day Cordage Co's
Celebrated****BINDER
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The finest goods on
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Write us for prices.

The fibre is long
and strong

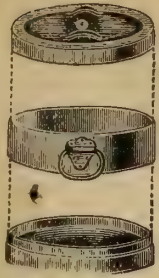
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HARDWARE MANILLA
MANILLA
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The paper stands
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Iron Clad Pattern.

MILK CAN TRIMMINGS



Broad Hoop Pattern.

**WHY YOU SHOULD
BUY OUR MILK CAN TRIMMINGS.**

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Our PATENT BROAD HOOP bottom has all the advantages of three-piece bottom, but is practically two-piece. The rim of Patent Bottom is turned in over edge of bottom proper, making smooth, uniform edge, that will not tear floors of factories or waggons.

Sufficient space is left between bottom proper and rim, to allow body of can to be inserted $\frac{1}{4}$ of an inch, making permanent joint.

Bottoms are thus sweated in with half the solder.

Bottoms are concave, draining to the centre, therefore are easier to wash out.

They will not corrode like those which drain to the side.

Top bands are "SHOULDERED" and have cut-out at joint, making neater and cleaner job in half time, than with old style hoop.

All bands have retinned edges.

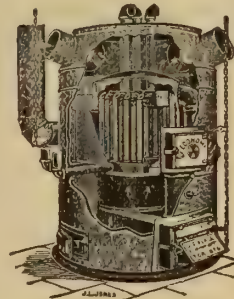
For durability, finish and economy in making up our Trimmings are unequalled.

The Thos. Davidson Mfg. Co., Limited
MONTREAL, QUE.

ALL ESSENTIAL FEATURES

That are necessary in a satisfactory and efficient Heating apparatus are embodied in the

"ECONOMY" FURNACES and HEATERS



The "Economy"

Hot Water and Warm Air
Combination Heater.

Their durability is assured beyond any question. Then, too, they are simple in construction and operation; have enormous heating capacity, and are most economical in the use of fuel. These are the points that are considered by the careful and discriminating buyer, and among such buyers our Heaters are known as "The Standard of Excellence."

Send for new Catalogue and
Price List.

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We solicit your orders for this popular brand. Shipment either from stock or for importation.

WE GUARANTEE the workable quality of these sheets to be equal to any on the market.

M. & L. Samuel, Benjamin & Co.

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26 to 30 Front St. West **TORONTO.**

CAN YOU AFFORD

to carry in stock unknown brands of stove polish that your customers know nothing about, brands they do not call for, the quality of which is inferior, gives them dissatisfaction, and the consequent sale of which brings discredit to your store? Your best judgment answers NO! Then sell

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THE MODERN STOVE POLISH

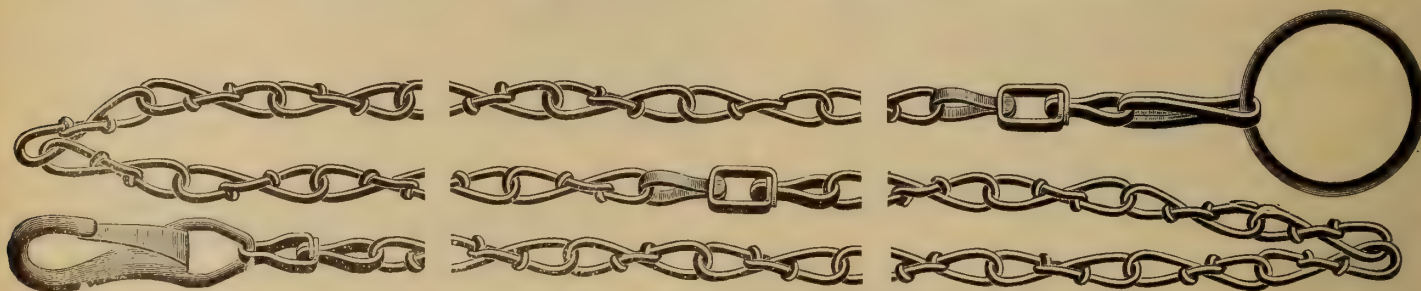
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For tethering cattle in fenceless pastures.
Made in all sizes. . .



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

NIAGARA FALLS, ONT.

MILK CAN TRIMMINGS

Kemp's Roll-rim Milk Can Bottoms.

The Roll-rim has no sharp turns; therefore, the grain of the metal is not broken, and, having a broad wearing surface on the bottom, it cannot damage floors.

It is the neatest and strongest in appearance, and is supplied with either Convex or Concave Bottoms.

Ample space is left between the bottom and the hoop for the insertion of the Body of the Can.

By examining the cut, anyone can readily see that this style of construction makes it the strongest Bottom ever produced.

They do not cost any more than inferior Bottoms.

If you want to keep ahead of your competitors, use Kemp's Roll-rim Milk Can Bottoms.

The Iron Clad Trimmings are made the same as the Broad Hoop, and differ from them only in having a narrower and thicker hoop, which does not require the Roll-rim, and, therefore, can be sold cheaper.

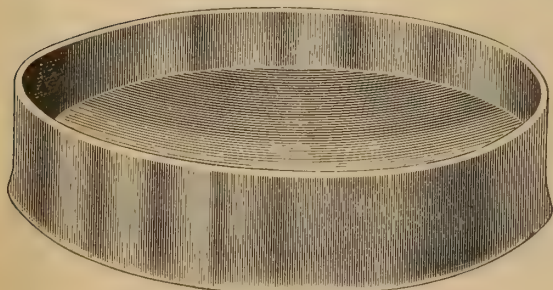


BROAD HOOP PATTERN.

FOR

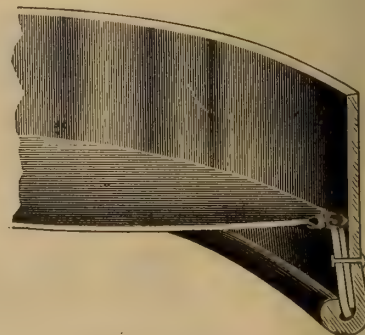
**Durability and Finish
Our Trimmings are
Unequalled.**

Tinned Iron cut to size in stock,
at right prices.



KEMP'S ROLL-RIM MILK CAN BOTTOM.

Manufactured by



SECTIONAL VIEW.

Kemp Manufacturing Co., Toronto, Can.

HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, JANUARY 21, 1899.

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President, Treasurer,
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WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER

VALUES STILL ADVANCING.

THE remarkable appreciation in metal values that we have had to refer to from time to time, during the past fall, continues, and it really seems as if there was no top at all to the cost of the different articles.

A comparison of some of the leading lines on recent dates makes this perfectly clear.

On January 3, pig iron in Great Britain was quoted at 49s. 6d. On Tuesday, the quotation stood at 51s. 11d., a rise of 3s. 5d. In the same period, No 1 foundry iron has advanced at Pittsburgh 50c. per ton, from \$11 to \$11.50.

Equally remarkable gains have been made in the same interval by all the leading

metals. Lead in London is 9s. higher than it was at the opening of the month, and in New York it has risen from \$3.95 to \$4.25. Spelter stiffened 25c. per 100 lb. between the 3rd and the 17th of the month in New York, and in London is 12s. 6d. higher than it was. Copper in New York has advanced a clean \$1, from \$13.25 on Jan. 3 to \$14.25 on Jan. 17, and stands at £62 15s. in London, against £52 2s. 6d. at the first of the month. Tin costs in New York to-day \$2.15 per 100 lb. more than it did at the beginning of the month, and has advanced in the same time in London from £89 to £98 17s. 6d.

This appreciation in the cost of raw material is naturally having its influence on manufacturers of various finished materials in Canada. With dry white lead showing an advance of 5s. per ton from the low point in Great Britain, and pig lead for spring importation costing \$3.57½, as against \$3.35 last fall, and \$3.25 in the spring of 1898, it is but natural that Canadian color-grinders are disposed to ask more money.

The evident disposition they show to contract for dry white lead for spring shipment is an indication that they consider the material a purchase at present. With these conditions in mind, it looks, therefore, as though traders would find it profitable to place their orders for mixed paints and colors generally as soon as possible. It is hardly likely, with an advance of 10 per cent. in dry white lead, and 40 per cent. in zinc, and with turpentine almost 50 per cent. above its normal level, that buyers will be able to fill wants to better advantage later on.

In one particular, however, the ad-

vanced cost of raw material has not influenced jobbing values. Canadian makers of wire and wire nails, owing to the fact that their raw material had risen \$3 per ton from the low price, withdrew old quotations, and are asking more money. Despite this fact, however, wire and wire nails are still being jobbed out at the old prices. The explanation of this is that firms there have good stocks on hand, and as the old range allows them a fair margin they are satisfied with it, and not disposed to take advantage of the rise in values outside. Whether they will maintain this attitude long is another matter.

An upright man never gets round shouldered through bowing his head in shame.

WIRE NAIL SITUATION.

At the figures now ruling for the raw material it is estimated that the cost of making wire nails in Canada is about \$2 per keg.

Prices, however, while being gradually increased, have not been worked up to that point yet.

The price at which wire nails are now, as a rule, selling is \$1.90 Toronto, although \$2 is being occasionally obtained.

Wire nails are up to \$1.50 per keg f.o.b. Pittsburg and Cleveland for carloads, and \$1.55 for less quantities. In other words, Canadians can buy the home-made nail 25 to 30c. per keg cheaper than they can the United States made article, plus the duty.

Decidedly higher prices may be looked for in wire nails in the near future.

He who is careful in business maketh dollars; but he who is parsimonious loseth them

A LUKEWARM BOARD OF TRADE.

FOR many of the things which to-day are a drag on the commercial progress of Toronto, the board of trade of that city must share a great deal of the responsibility.

If there is anything a board of trade should do it is to have a keen eye for those things which are conducive to the commercial welfare of the community in which it is situated.

The politicians who may represent it in Parliament are too busy grinding axes, or trimming their sails to catch favorable political breezes, to bother their heads about such matters, while the members of the average city or town council are either so lacking in business ability that they cannot do anything practical, or are so consumed of self interest that they have not the desire to do anything unless it happens, at the same time to be compatible with their own comfort and welfare.

If, then, the board of trade in a community is not in the watch tower, what body else can be expected to be there? None, certainly. At any rate, when a board of trade is not alive to the commercial interests of a municipality it is certain that municipal councils or representatives in Parliament will not be.

If the heart is sluggish the circulation cannot be otherwise.

The Toronto Board of Trade has not been active. It has been sluggish. Like unto the church of the Laodiceans, it is "neither hot nor cold." It is lukewarm, and anything that is lukewarm will not raise enough steam to work a midge's wing.

The men, who, as a rule, conduct the business of Toronto, are about as little fitted for the duty as a mule is to run a steam engine. They are either elected because of their prominence in some society, or in this or that political party. Rarely is it because of their business ability,

Had the Toronto Board of Trade not been lukewarm in regard to municipal affairs, there would not now be in the city council such a dearth of men of business ability.

The board of trade did, some seven or eight years ago, essay to take an active interest in municipal matters. Its candidate,

dred votes, and, although the people have again and again repented that they rejected Mr. Osler, the business men's candidate, yet the board has never since been able to muster enough courage in the way of securing municipal reform.

Just now a great deal of concern is being expressed at the shallow condition of Toronto harbor, and the board has begun to pass resolutions in regard thereto. But it has been known for years that the harbor basin was being filled up with sediment from the Don river and other sources. It was also known that the St. Lawrence canals were being deepened. But it is only when the deepening of the canals is practically completed and it is found that vessels drawing even twelve feet of water would experience some difficulty in getting into the harbor, that the board wakes up. Now it is all flustered.

It is a pity it had not got flustered at least five years ago, for possibly by this this time some practical remedial work might be on the point of being begun.

Then in regard to the railways. Toronto has by no means been fairly treated by them. It is asserted, somewhat facetiously, it is true, but, nevertheless, not without reason, that the "Queen City" has been side-tracked. The board of trade is becoming alarmed about that, but the city was on the side-track before the board became alarmed.

A lukewarm board of trade is not, however, a dead one. And while there is life there is hope. In a few days the board will elect its officers for the ensuing year. If the members will take that interest in the affairs of the board that they should, and elect to the various offices bright and energetic men, it may become a live instrument in advancing not only the interests of the city, but those of the country as well.

There are signs that the board is waking up. Let it be seen to that it is made wide awake.

ADVANCE IN WOOD SCREWS.

An advance in the price of wood screws is announced by the manufacturers. It is equal to about 14 per cent.

The discounts are now as follows: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head

brass, 80 and 5 per cent.; round head brass, 72½ and 5 per cent. The terms are unchanged at 4 months or 3 per cent. 30 days.

The change is the natural outcome of the marked appreciation in the price of wire rods.

Although it contains no lettering, the merchant's face is a sign which most people can read as they run.

WIRE IS MATERIALLY DEARER.

THE wire situation, as a result of the consolidation in the United States, has gathered a great deal of strength during the past week.

The mills at Montreal and Hamilton have advanced their prices on tinnings' and fencing iron wires, the appreciation in some gauges of oiled and annealed being about 50c. per 100 lb.

And not only has the price been changed, but quotations are now f.o.b. factory point, which makes the appreciation in values larger than they would otherwise seem.

Owing to the fact that the different factories are using different lists, there is naturally an absence of uniformity in the discounts, the Hamilton wire being quoted at 25 per cent. f.o.b., and the Montreal at 35 per cent. f.o.b. Some of the factories, however, will only quote on application, having withdrawn their prices.

The tone of the market is decidedly unsettled, there being a feeling that prices are likely to further appreciate any day. In consequence of this, jobbers will only take orders subject to the acceptance of the manufacturers.

It is the opinion that the manufacturers have been caught short on rods, while the jobbers, not being able to put wire into stock, owing to the fact that freight allowances were made on direct shipments, are in a similar position.

It is the general opinion that the price at which wire has ruled for some time has failed to net the manufacturers a profit.

The price of brass and copper wire has also been advanced, being quoted nearly 15 per cent. higher than it was a week ago.

There is more gold in brains and muscle than in all the auriferous rocks of British Columbia and the Klondyke.

The Iron Trade Review says that it is understood that the mills, with which negotiations have been in progress for some time, have been kept under pressure to curtail their selling, and that the course of the steel market has been influenced to a very considerable extent by that fact. Had it not been for the action of certain producers, whose names are never thought of in connection with such combinations, the steel market would probably be higher to-day than it is.

TRANSCONTINENTAL MAILS.

DURING the last few days many of the newspapers across the line have devoted much space and lavish eulogy to the feat recently accomplished of transporting mails from New York to San Francisco, a distance of 3,347 miles, in 107 hours and 10 minutes, in accomplishing which over 12 hours was clipped from the then existing record for mail trains. A Chicago paper, commenting on the rapid run, remarked that "the Canadian Pacific has been anxious to get the plum, but cannot make the time." The plum referred to is the carrying of the transcontinental mails.

In that connection a C.P.R. official tells about the run made by the C.P.R. in 1891, when, at 1 p.m., on August 29, a train left Vancouver, carrying mails from S.S. Empress of Japan. It took this train just 77 hours and 9 minutes to reach Brockville, 2,802 miles distant. The mails were then taken across the St. Lawrence river to Morristown, N.Y., where a New York Central flyer took them on board at 9.45 p.m., Sept. 1. The 353 miles to New York were covered at the rate of 54 miles an hour, in 6 hours and 58 minutes, making the total for the transcontinental trip exactly 84 hours and 7 minutes, or 23 hours and 3 minutes quicker than the trip made over the United States roads.

It was confidently stated that "the C.P.R. cannot make the time," and yet more than seven years ago it is seen that this road beat the present performance by within a fraction of 24 hours, and this, too, with a road-bed greatly inferior to that of the present day. The two roads side by side are as follows:

	Miles.	Hours.
New York to San Francisco...	3,347	107.09
Vancouver to New York....	3,155	84.07

The American route is thus seen to be 192 miles longer than the Canadian, but the difference in the time is very much more than the increased distance would represent under similar conditions.—Star, Montreal.

A SMOKELESS OIL STOVE.

G. S. Pelton is showing a fine range of oil stoves for heating purposes, that, it is claimed, will not smoke. The samples have just arrived from England, and are both neat and attractive. They come in all sizes and several designs. They are made to take the place of gas stoves and can be used in any room. Being especially adapted for bedrooms, and other rooms where there happens to be need of special heating.

Among some of the principal advantages are: They will not smoke, are intensely powerful, are under perfect control, and are remarkably economical.

Some of them are fitted with fireclay

backs with fibre asbestos, and heated with two burners, making a pretty and warm fire.

These stoves are made by Messrs. Wright & Butler, and Mr. Pelton, Montreal, is sole Canadian agent.

MONTREAL HARDWARE HOCKEY LEAGUE.

The first scheduled game in the above league was played on Thursday evening at the Prince Arthur Skating Rink, in the presence of a large crowd of wildly enthusiastic supporters of both clubs. The contestants were teams from Caverhill, Learmont & Co., and Thomas Robertson & Co., Ltd. The ice was in splendid condition, and the game was fast throughout and keenly contested by both sides, finally resulting in a victory for Thomas Robertson & Co., Ltd., by a score of 2 to 1.

Mr. A. Locke was referee and gave universal satisfaction.

C. L. & Co.	T. B. & Co., Ltd.
Cockburn	Goal.....Beatty
Newman.....	Point.....Irving
Bain	Cover-point.....McGinnis
Bremner.....	Forwards.....Pow
Warminton.....	".....Vallance
Breigle	".....McKenzie
Davidson	".....Orsali

Timekeeper—M. Polan.

Umpires—E. Eaton and A. Woods.

PETROLEUM VARNISHES.

In regard to the use of petroleum for varnishes, a German authority gives the following results of his investigations: Firstly, the solubility of the varnish gums in petroleum and its distillates is very small, and decreases as the boiling point increases; secondly, petroleum ether and certain grades of petroleum products evaporate more rapidly than turpentine, but most turpentine products evaporate more slowly, and some of them evaporate only partially at the ordinary temperature, and therefore any high-boiling petroleum is not suitable for use in varnishes; thirdly, it is not desirable to use petroleum for drying oils and varnishes, nor as a diluent for oil colors.

IMPORTANCE OF A JOB REGISTER.

Keep a proper record of all work required to be done, don't trust to memory, remarks an exchange. How often a customer comes in and says: "You promised to send a workman to do 'so and so,' but he's not been, much to my inconvenience." An excuse is made to them, but, if the truth were told them, you would have to confess to having forgotten all about the matter. Enter the order clearly in the order book, and do not forget price, and register your promise as to delivery. Day by day a diary should be entered up.

THE CYCLE SHOW MATTER.

THE original cause of the trouble over the bicycle show, which is to be held in Montreal next month, was the payment of Sherritt's expenses to Vienna. Montreal subscribed these, and as a result was awarded the world's meet. Accordingly certain men in the trade here thought it would be a good idea to hold a show in February. A committee was named, and Sohmer Park secured and the fun began.

The Brantford people asked for six spaces in the hall and wanted to pick them out. The committee of management replied that lots would be drawn for positions, which would give every concern a fair chance. This did not satisfy the Brantford people, and at the meeting of the maker's association they proposed a resolution that the Canadian makers should not take part in the Montreal show. Owing to the jealousy originally created over the world's meet affair this resolution carried, and the Canadian wheel makers will not be represented at Sohmer Park. It is understood, however, that the Massey-Harris people, who are outside the association, have signified their intention of making an exhibit.

Agents for all the United States, German and other foreign makers have already applied for space.

Mayor Prefontaine has consented to act as patron, and the projectors are sanguine that it will be successful, although they are naturally disappointed at the stand taken by the Canadian makers' association.

NOT POSTED IN FURS.

The astounding ignorance of some people in regard to the value of furs is unaccountable. Here is an instance which almost led to a serious encounter. The "scene" occurred at the commercial travelers' rooms: Biles: Say, Boles, what do you think of my sea otter collar?

Boles: Sea otter?

Biles: Yes, plucked sea otter. I got the skin in trade from a Siwash squaw when last at the Coast.

Boles: Well, Biles, if you had not told me what it was I should have taken the collar for a piece of an old door mat.

Here the ubiquitous elevator boy interposed, and prevented a deadly conflict.

WIRE NAILS

TACKS

WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

TRAVELERS DINE IN VANCOUVER.

THE first annual dinner of the Northwest Commercial Travelers' Association, held at Hotel Vancouver, in Vancouver city, was a success, such a decided success that the officers of the association well deserve the many congratulations they have received on the outcome of their initial attempt at a festive spread.

As will be seen from the following list of those who were present, the interest taken in the affair embraced almost every branch of commerce: A. O. Campbell, of Vancouver Hardware Co.; G. R. Maxwell, M.P., C. E. Tisdall, M.P.P., Allan Cameron, E. J. Coyle, Harry Watson, of McDowell, Atkins, Watson & Co.; P. Egan, of W. Braid & Co.; Fred W. Mitchell, of F. W. Mitchell & Co., brokers; W. J. McMillan, Geo. Trewes, A. R. Ockerman, of McMillan & Hamilton; F. M. Black, of F. R. Stewart & Co.; W. H. Malkin, of W. H. Malkin & Co.; W. T. Stein, of Stein & Co., accountants; R. W. Clark, of W. H. Malkin & Co.; Herb. Findlay, of Findlay & Co.; A. E. Kemp, of G. F. Allan & Co.; Fred Richardson, of Ames, Holden & Co.; A. Carmon, of McKay, Smith & Co.; Frank Brown, in the stationery line; T. B. Hill, Toronto Biscuit and Confectionery Co.; Fred Wilson, McLennan & McFeely; A. E. Goodman, J. Prentice, J. Y. Griffin & Co.; E. J. McFeely, of McLennan, McFeely & Co.; A. R. Tufts, of Wm. Tufts & Son; D. Rabbitt, of Okanagan Flour Milling Co.; H. T. Lockyer, of Hudson's Bay Co.; F. Buscombe, of J. A. Skinner & Co.; E. C. Kilby, of E. C. Kilby; W. McGirr, of Creed, Slater & Co.; H. C. Clarke, J. Duff Stuart, of Clark & Stuart; A. Willbridge, of The National Cash Register Co.; B. A. Creed, C. R. Slater, of Creed, Slater & Co.; H. H. Jackson, of Royal Soap Co., Ltd.; H. A. Edgett, of Edgett, Garden & Edgett; Geo. Buscombe, of Skinner & Co.; J. A. Tepporten, of Henderson Bros.; W. J. Taafé, of M. W. Peck & Co.; Thos. Parkinson, of F. R. Stewart & Co.; W. Braid, of Braid & Co.; R. J. Brudis, W. E. Drake, of McClary Mfg. Co.; J. Burns, jr., manufacturers' agent; W. Decou, C.P.R. Telegraph; S. Oppenheimer, of Oppenheimer Bros.; W. Taylor, of B. C. Canning & Coffee Co.; F. R. Douglas, of Kelly, Douglas & Co.; Geo. Ramsay, of Ramsay Bros.; Ed. Gerstir, of Creed, Slater & Co.; H. A. Slater, of T. Dunn & Co., Ltd.; A. F. Rolph, O. H. Dingman, of Parsons Produce Co.; W. W. Moore, of J. H. Anderson & Co.; T. J. Stephens, of John Leckie & Co.; G. A. McIntyre, of The G. R. Gordon Co., Ltd.; W. H. Leckie, R. J. Leckie, of J. Leckie; E. Turayne, of Rice Lewis & Son, Toronto; A. B. Erskine, S.

B. Snider, of The Ames Holden Co., Ltd.; Geo. R. Gordon, of The G. R. Gordon Co., Ltd.; G. W. Phipps, of Thos. Dunn & Co., Ltd.; Geo. W. Adams, of W. Strachan Co., and Radnor Water Co.; J. E. Elliott, buyer for McLennan, McFeely & Co., Ltd.

After the assembled guests had shown by deeds their appreciation of the excellent repast provided them, the chairman of the evening, A. O. Campbell, vice-president of the association, followed a bumper to Her Majesty by a short address of greeting to those present. In regard to the determination to hold an annual dinner, he stated that the first meeting of the British Columbia branch of the Northwest Commercial Travelers' Association was held on Saturday, the 24th December, and it was decided that an entertainment of some kind should be given. After discussion a dinner was decided on, and as most of the travellers would be leaving the city immediately after the New Year, to-night was selected as being the best night suiting the majority present. The committee had but three days to make all the arrangements, and, as they were all inexperienced at preparing such affairs, they would be all the more gratified if their efforts were to be crowned with success.

In regard to the affairs of the association

Mr. Campbell was most hopeful. He claimed that with loyalty on the part of Vancouver's traders success was bound to be ours. He spoke of the expansion of the banking industry as an indication of the way the business of the city was growing. The great firms of Canada were all small a few years ago, and he was proud to be a pioneer of Vancouver, and to be a citizen of no mean city, which every day was showing brighter prospects.

H. Watson proposed "Our Guests," and in doing so showed the advantage of improving friendly relations between the association and its friends, commercial and political. In reply, G. R. Maxwell, M.P., said that it gave him a good deal of satisfaction to be present. He had always been ready to do anything he could to bring trade to the city of Vancouver. He hoped among other things to soon see another railroad right into the heart of Vancouver. He appreciated the difficulties that commercial travelers had to face. No one was better fitted for the business than healthy, bright young men such as he saw before him. The city was only in its infancy, and the fulfilment of some of its brightest prospects depended on its commercial travelers. No city and no Province filled so much place in the eyes of the people of Canada,

Just PAINT

Nothing more—nothing less. Just what is needed to make the best paint in just the right proportions is put into **THE SHERWIN-WILLIAMS PAINTS**. Everything that is not needed is left out. There's no excess of lead or zinc—just enough of each. We are not interested in lead alone, or zinc alone. We are interested in only one thing—just paint. That's the reason.

THE SHERWIN-WILLIAMS PAINTS

have maintained and increased their reputation for thirty years; that's why the output of many tons of paint daily at our works increases; that's why **THE SHERWIN-WILLIAMS PAINTS**—mixed ready for use—are taking the place altogether of the kind that's mixed by guesswork on the spur of the moment. "Paint Points" will help you paint wisely. It's free.

THE SHERWIN-WILLIAMS CO.,
PAINT AND COLOR MAKERS,
Canadian Dept.,
21 St. Antoine Street,
Montreal.

and in the eyes of her, statesmen at Ottawa. He hoped that as a result of their efforts the year just opening would be marked by bright achievements.

C. E. Tisdall, M.P.P. was pleased to be present, though he could no longer call them fellow-travelers. He had been a member for four years but not having had any trips to make last year he had allowed his ticket to lapse. He would not make a political speech, but, as a supporter of the Local Government, he would say that the platform that they had gone to the people on would be carried out. He spoke of the need of a good, workable insolvency act. He wished them all a very prosperous New Year.

Allan Cameron, freight Superintendent of the C. P. R., hoped that next year the Hotel Vancouver would need two annexes to accommodate them. They had spoken of the vicissitudes of a commercial traveler's life. There was another side, as the laymen sometimes found out, when the commercial traveler who got in late, got the bridal chamber and had the best waiter in the hotel rushing to wait on him. He hoped to always continue happy relations with the commercial travelers' associations.

E. J. Coyle, district passenger agent, made one of his characteristically genial speeches, showing how the commercial got much the worst of it. To any of them who had any cold platform waits he advised that they could avoid anything of that kind by studying the C. P. R. time tables and making their arrangements accordingly.

F. M. Black, proposed "The Press." He referred to the cordial relations existing between the press and the commercial world, which, he hoped, would continue. The commercial interests were safe in the hands of the press of the Province. Replies were made by Messrs. Robb and Burde.

John Prentice, in a happy speech, the apt hits of which were much enjoyed, gave "The Ladies." Geo. Buscombe and W. Braid, two of the gay young bachelors, made reply but the other bachelors were too bushful.

The happy gathering came to a conclusion with the singing of "Auld Lang Syne" and "God Save the Queen," and three cheers for the chairman.

DATES OF BIG INVENTIONS.

Marion & Marion, patent solicitors, write as follows: The air brake was invented by Westinghouse, 1874; the torpedo, by Bushnell, 1777; watch, by Peter Hale, 1477; thermometer, by Drebel, 1609; telescope, by Lippersheim, 1608; printing, by Gansfleisch, 1438; microscope, by Jansen, 1509; cotton gin, by Eli Whitney, 1793; lithography, by Senefelder, 1798; lightning rods, by Franklin, 1752; gunpowder, by Schwartz, 1320; balloon, by Montgolfier, 1783; barometer, by Torricelli, 1643.

SOURCES OF TIN.

THE tin used in the tin plate industry comes from several sources, says a United States paper. The best of these is found in Australia and the Straits Settlement. The latter furnish the most desirable tin, known as Banca tin. This is regarded as the purest, and is in consequence more sought after by the manufacturers of tinplate. The Cornwall mines were discovered about 55 B. C., and for twelve centuries were the one source of this mineral. In 1240 tin was found in Bohemia. Five hundred years later, in 1760, the Banca mines were opened. In the following century Australia became a producer of block tin on a large scale. From 1872 tin has been found in commercial quantities in New South Wales, Queensland and Tasmania.

The United States has not been so fortunate, although many attempts have been made from time to time to find tin. Tin was discovered in California as early as 1840, but there was no mining done until 1868. Only for a short time were the mines operated; they were then closed down, and remained so until 1888. In this year an American company bought the property with the intention of operating, but it was sold to an English syndicate before two years had passed. Something like \$800,000 was spent but no special results were secured.

The total product of the mine was 200,000 pounds of tin, valued at \$56,000. The Harney Peak mine is the story of another futile attempt to get tin in commercial quantities. The Harney Peak is situated near Custer, S. D. A great deal of money has been spent in the development of this mine, but it is doubtful if more than ten tons of the metal have been taken out of the ground. The English capitalists were also heavily interested in the attempt. In Alabama, North Carolina and Virginia tin-bearing rock has been found. In no sense can the United States be regarded as a tin-producing country.

A CURE FOR GRIPPE.

A great many of the readers of **HARDWARE AND METAL** are probably suffering or per- adventure may suffer from the la grippe scourge. Here is a recipe which is warranted, by those who have tried it, to cure: Pour a kettle of boiling water into a basin. Into the water put a sponge or cloth. Of the two a sponge is probably preferable. Upon the sponge pour half an ounce of laudanum. Then inhale the steam for half an hour. It is claimed that this will place la grippe hors de combat in a night.

Alex. MacLaren, general merchant and miller, Wakefield, Quebec, has been burned out; insured.

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and carefully selected; will double seam either way of grain; are fully equal in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent . . .

22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

37-39 Front Street West

WHOLESALE
ONLY

TORONTO

Special Notice.

On the 1st of February our travellers will have complete lists and special prices on all goods which we have now in the warehouse of Samuel, Benjamin & Co., 30 Front St. West. The prices will be very low, as we want to clear out the entire lot quickly.

This is an opportunity for the trade to secure some goods at very low prices for the Spring business.

Orders will be filled as received, and to the extent of the stock only.

Kindly reserve your Spring Orders, it will pay you to wait for our travellers.

H. S. HOWLAND, SONS & CO.

37-39 Front Street West

WHOLESALE
ONLY

TORONTO

Graham Wire and Cut Nails are the Best.

TRADE CHAT.

THE case of The American Dunlop Tire Co. v. The Gould Bicycle Co., The Brantford Bicycle Supply Co., Gould, Knowles & Shapely, an action for infringement of the Dunlop tire patent, judgment has been given in favor of The American Dunlop Tire Co by the Exchequer Court. On application there will be a reference made as to the amount of damages which shall be paid the plaintiffs. This is the third suit of this nature the Dunlop company have won since 1893.

Oil has been struck at Kent Bridge near Chatham, Ont.

The principal furniture makers of Toronto report that trade is exceedingly active; much brisker than usual.

W. A. Frost, malleable iron manufacturer, Smith's Falls, Ont., has advanced the wages of his laborers 10c. per day.

The Tudhope Carriage Co., Orillia, Ont., have entered their new premises. They are excellently finished and equipped.

Gauvreau & Gelly, decorators and painters, Rat Portage, Ont., have moved into their new premises on Centre Fort street.

At The Goldie - McCulloch moulding works the other day, a fly-wheel 17 feet in diameter and weighing 17 tons, was cast. This is the largest casting yet made at these works.

The Rat Portage, Ont., Lumber Co. have installed in their yards an electric tramway system. A dynamo furnishing a current of 250 volts supplies a trolley car with an electric motor of 40 horse-power, capable of drawing six loaded trailers.

G. A. Richardson, hardware dealer, Guelph, Ont., has purchased Asa Rumford's stock of hardware, and will remove it into his own store. Mr. Rumford intends adding other lines to his business, and has gone out of the hardware to secure more room.

The Parry Sound, Ont., Board of Trade, has recommended the construction of an electric railway to connect Parry Sound and Depot Harbor. It was estimated that the cost of the road would be \$25,000, exclusive of a bridge, which would have to be constructed.

IS THE CONSUMPTION OF WHITE LEAD DECREASING?

The increased use of ready-mixed paints is thought to have an important bearing upon the sale of ground white lead. Indeed, occasionally, it is asserted that the turnover in lead has been positively lessened. In some sections there may be some truth in this, but in the Dominion as a whole, statistics show that there is no falling off in

the shipments, and this pigment is still a prime favorite. The Canada Paint Company, ever on the alert to introduce something new and of undoubted utility, are evidently not content with the steady demand for the popular brands of "Elephant" and "Decorators' Pure" white leads, but are advertising and pushing the sale of their "White Cross" brand of permanent white. This paint is said to be snowy white and of great covering power. It will take as much thinness as pure white lead and do as much work. A limited quantity was introduced last season giving the best of satisfaction. The price is a little lower than that asked for genuine lead. The new brand is ground extremely fine, but not quite as stiff in the paste as pure lead, therefore easier to "break up," as the painters say.

FINE COURTESY.

BEAUTY of life and character, as in art, has no sharp angles. Its lines seem continuous, so gently does curve melt into curve. It is sharp angles that keep many souls from being beautiful, that are almost so. Our good is less good when it is abrupt, rude, ill-timed or ill-placed. Many a man and woman might double their influence and success by a kindly courtesy and a fine manner.

Tradition tells us that before Apelles painted his wonderful Goddess of Beauty, which enchanted all Greece, he traveled for years, observing fair women, that he might embody in his matchless Venus a combination of the loveliest found in all. So the good-mannered study, observe and adopt all that is finest and most worthy of imitation in every cultured person they meet.

A single grain of musk will scent a room for years without seeming to lose any part of its intrinsic value; so do we ever radiate an influence of manner appreciable to all about us and powerful for good or evil, even though we may not be conscious of its diffusion. Yet even the brute creation seems instinctively conscious of its quality, whether we be coarse or refined.

A fine courtesy is a fortune in itself. The good-mannered can do without riches, for they have passports everywhere. All doors fly open to them, and they enter without money and without price. They can enjoy nearly everything without the trouble of buying or owning. They are as welcome in every household as the sunshine; and why not, for they carry light, sunshine and joy everywhere? They disarm jealousy and envy, for they bear goodwill to everybody. Bees will not sting a man smeared with honey.—Pushing to the Front.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

PRIEST'S CLIPPERS

Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM. SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., USA.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.

McLaskill, Dougall & Co
Fine Varmish & Japan
Manufacturers
Montreal
Price Lists on application

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Write today for a free copy of our interesting books "Inventors Help" and "How you are swindled." We have extensive experience in the intricacies of patent laws of 50 foreign countries. Send sketch, model or photo for free advice. MARION & MARION, Experts, New York Life Building, Montreal, and Atlantic Building, Washington, D. C.

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TORONTO, ONT.

KEEP THINGS MOVING.

DO not think simply because the holiday trade is over that nothing more can or will be done in business till the spring season opens, remarks Stoves and Hardware Reporter. Strong endeavors should be made not to allow trade to grow dull and lifeless and become irrevocably fixed on a dead, monotonous level from which it cannot rise without difficulty. Some particular line of goods might be brought into prominence or where possible an attraction of an unusual kind ought to be secured to liven things up as much as possible.

The clerks as well as the patronage need some kind of a goad to maintain the interest which is so inseparable from success for all concerned. The best and most effective way of doing this is by making some reductions in prices where possible. This ought to be honestly done without any make-believes or prevarication. Such a method of enlivening trade is certain to draw extra

patronage, and it will also enable the merchant to close out certain lines of goods without loss from carrying them over. At the present time wholesalers begin to make offers which give the retailer a chance to secure some of those varieties of goods which will serve to draw trade. Manufacturers are also making inducements which should act as a trade compeller for the retailer. Factories are desirous of cleaning up stocks just as much as the jobbers are, and, consequently, every opening is given for the energetic and enterprising merchants to enlarge their stock of salable goods at low prices.

It would, therefore, be well for merchants to visit the market personally at this period and make such selections as will benefit their stock and trade. Undoubtedly, there are a great many people who economize on necessities before Christmas in order to buy presents for friends and relatives. After that period is past, people come into the store and buy the goods they actually need.

The hardest part of the winter is still to come, for we have had little or no cold weather as yet. It is advisable, then, not to commence any indiscriminate price-cutting on such goods as will be required at that time. Let reductions be made on goods which, while useful and necessary, are not so indispensable as stoves, etc.

Bargains of some kind there must be, however, for they are absolutely essential to the augmentation or even preservation of the requisite amount of trade. Do not lose time in starting the sales to move by advertisements and window displays. In order to make a sale successful, people must know about it, and in a way which will impress them with the importance and value of it. Make due arrangements to have all in readiness, so that the coming trade will be well cared for.

Andrew Robertson's general store and dwelling at White Lake, Ont., was destroyed by fire recently. The loss is about \$2,000 and there is no insurance.



David Maxwell & Sons

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

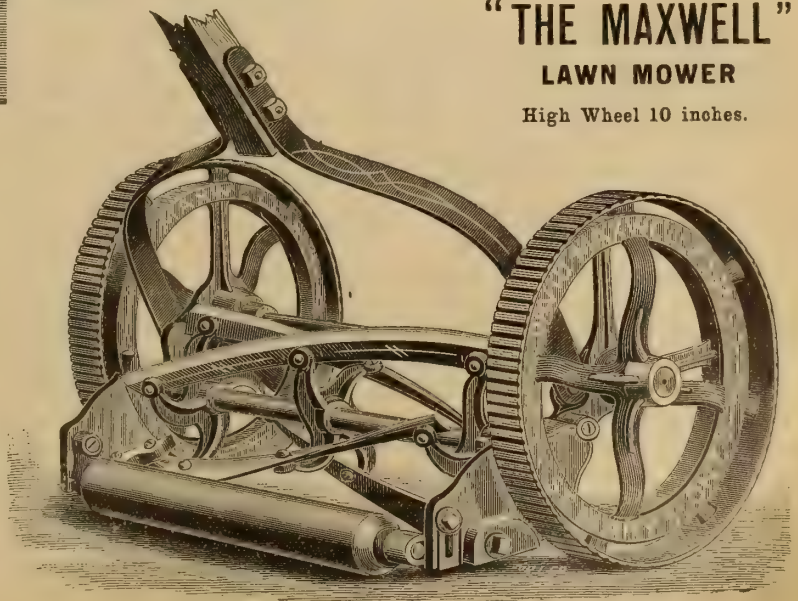
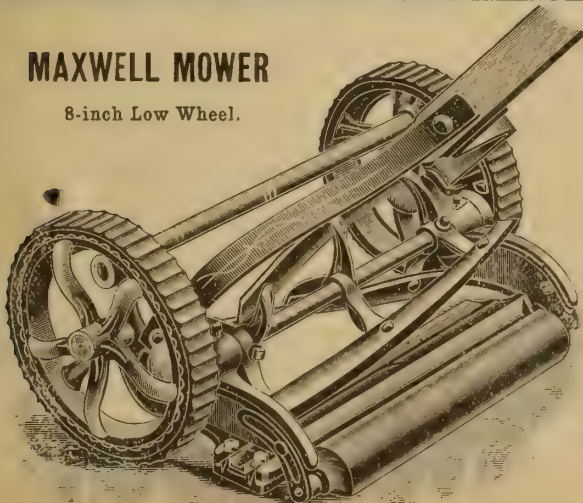
"THE MAXWELL"

LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



CATALOGUES, BOOKLETS, ETC.

A NEAT POCKETBOOK.

J. S. Mitchell & Co., of Sherbrooke, Que., are sending to their friends a neat little leather pocketbook, with calendar attached. The cover is in imitation morocco and is strong, besides being attractive in appearance. The Messrs. Mitchell deal extensively in iron and hardware, and make a specialty of contractors' and builders' hardware, mining and mill supplies, etc. They also deal extensively in coal. It may be mentioned that the company usually get up something in this line as a little memento to their customers for the New Year.

A BRIGHT ANNIVERSARY NUMBER.

The Age of Steel, St. Louis, Mo., has celebrated its 41st birthday by the issue of a 120-page anniversary number. The edition is specially devoted to the export trade of the United States; and to all interested in this development it must prove replete with interest and information. And the edition is as excellent from the typographical point of view as it is from the editorial.

AN ENGINEERING MONTHLY.

HARDWARE AND METAL has received a copy of the first number of The Engineering Times, a monthly magazine published in London, Eng. This first edition contains a large number of illustrated articles on mechanical and engineering topics, and, if the succeeding issues are up to the standard of the first, this journal should find favor in the engineering trade everywhere.

A QUESTION OF WHITE LEAD.

Editor HARDWARE AND METAL,—In your issue of January 14, under the heading of "Montreal Markets," for paints and oils, the following appears: "The importation of English paint (white lead), which was at one time familiar on our markets, has practically ceased," and, again, under "Toronto Markets": "Scarcely any Old Country ground lead is now coming forward . . . and the popular brands ground in the Dominion are now fully specified to the exclusion of the old time, but now obsolete, English makes."

As sole agents in Canada for Brandram Bros. B. B. white lead, both English ground and as ground by ourselves, we take exception to the above, and wish to say that in the past two years the sale of Brandram's B. B. white lead has largely increased, especially in Quebec and Ontario. Any one attending Her Majesty's theatre in Montreal, cannot help noticing the beauty of the interior painting which is done with Brandram's English ground lead. The same is equally true of the Cathedral in

Quebec, and many other places that could be mentioned.

It is not our desire to depreciate Canadian ground white lead, of which we are manufacturers, but the superiority of Brandram's B. B. white lead is such an established fact, that large shipments are regularly sent to New York, where the duties would seem almost prohibitive.

HENDERSON & POTTS.

Halifax, N. S., Jan. 17, 1899.

MAINTAIN PRICES.

With the wave of prosperity which has been inundating the country for some time there ought to be more strenuous efforts made to keep prices up as much as possible, says Stoves and Hardware Reporter. As a rule, where they have the opportunity, people prefer to buy goods of substantial wearing quality, which will insure some satisfaction in the use of them. Too often it is observed that there is no intermediate price in styles of goods. That is to say, one variety will be exceedingly expensive and another too cheap. This is one of the many extremes which should be avoided if possible. Neither the merchant nor clerk take sufficient cognizance of the great volume of this trade and make but feeble, badly directed efforts to cater to it. It has indeed often happened that only after repeated requests on the part of customers, has any effort been made to gratify this multiplicity of demands for goods of a better quality.

There should by all means be a unanimity among merchants in the endeavor to maintain prices throughout the country. It cannot well be done single-handed, for, while there would be a vast number who would see the advantage of this raise, there would be many more who would be inclined to make unfavorable comparisons between the prices prevailing at different stores. Ignorant people would be ready to think there was much injustice in disparity of prices if all merchants did not connive in keeping them up while selling better goods. In this way strength is obtained by union and business interests are promoted incalculably.

It is one thing to keep prices within the reach of the masses and quite another to grind them down so that all concerned in the manufacture, sale, and purchase of the merchandise are injured. All actions, however small, have some appreciable results, and it is only too evident that the store-keeper suffers when the workingman is not prosperous. Whereas, he depends for his prosperity upon the maintaining of prices on products which he assists in manufacturing or producing. Too often the retailer is the one who should bear all the blame of the foisting of low-priced goods on the mar-

ket. He generally creates the demand by advertising cheapness as one of the most attractive attributes which they can possess.

It stands to reason that if the retailer is continually desiring to purchase low-priced goods, if imitations are put forth with as much gusto as the genuine article, each particular party who is engaged in its production and disposal must follow suit. No one is benefited by such a proceeding, while great harm may be done. It is time to change all this, and now is the best time to begin.

REFINING COPPER.

A revolution has been quietly effected in the methods of refining copper, and nearly half of that produced in this country is now refined by electricity. The method consists in electroplating the metal from an anode composed of the "blister" or impure copper, the strength of the current and the composition of the liquid both being so chosen that nothing but copper is deposited upon the cathode, the impurities in the crude metal falling to the bottom of the tank in the form of mud. The great electrolytic refinery of the Anaconda Co., in Montana, produces from 100 to 120 tons of refined copper daily, by this process, and is the largest plant of the kind in the world. A similar refinery at Perth Amboy, N. J., has a capacity of 10,000 tons of refined metal per annum.—Iron and Coal Trades Review.

NUT-MAKING MACHINERY.

Remarkable advancement has been made in the perfection of machinery for the manufacture of nuts, according to an exchange. An Ohio firm has recently completed a machine which produces a complete nut with two movements of the operator, the machinery used heretofore requiring four movements. It is said a boy that can handle the bar of iron and do the feeding can make a ton of nuts in a day. The machine has just been completed and put in operation. It is expected it will revolutionize the manufacture of nuts. Large orders from these works have been sent to Leeds, Manchester and other points in England.

PERSONAL MENTION.

Mr. A. J. H. Parker, Canadian representative of E. F. Walter & Co., is starting this week on a business trip to the Maritime Provinces. He is now showing a new razor called "Reform Razor," and if appearances are anything, it ought to be a good seller.



**TEST THE MATTER---
SAVE THE DOLLARS.**

Cheapest can faucet on
the market.

SAMPLE FREE.

J. M. LITCHFIELD

453 Quincy St., Brooklyn, N. Y.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon***KNOX HENRY.**Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.**SPECIALTIES**—C Brand Horse Nails—Canada
Horse Nail Co.**BOLTS**—Tire and Stove Rivets of all kinds—
Chalcraft Screw Co.**BRASS GOODS**—Gunn Castor Co., Limited,
Birmingham, Eng.

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second PressureIn cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

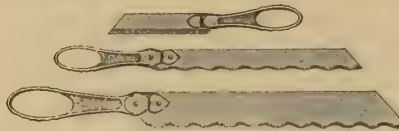
MONTREAL

Not in the Combination

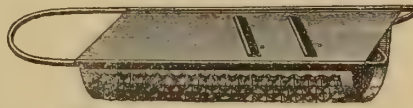
Write for prices on

MRS. POTTS SAD IRON HANDLES.**M. SCHRAYEY'S SONS & CO.,**

49 Blue Island Ave., Chicago, Ills.

ILLINOIS CUTLERY CUTS!**No. 1 Bread Knife Set.**One each, Bread, Cake and Paring Knife, malleable
handles firmly riveted to steel blades, will cut hot or cold
bread without crumbs. Each set in paper box.

PAT. AUG. 15. 1893.

**Combined Grater and Saw Cutter.**The only one; slicer and grater are detachable; slicer
sheet made of Apollo galvanized iron with steel cutting
blades. It will slice cabbage apples, potatoes, cucumbers,
onions, turnips, beets, and everything in the vegetable line.
It is a time and labor saver; is used in the kitchen every
day.**Famous Parer and Slicer.**Polished beech handle, nickel plated steel blade and
ferrule, takes off an even peel, easily sharpened and
cleaned. The best paring knife for potatoes, apples, pears,
turnips, quinces and firm peaches. Write for our catalogue.Sole Canadian Agents, Squire, Watson & Co., Montreal,
Canada; Chas. E. Santo, London, Canada.**ILLINOIS CUTLERY COMPANY,**

Decatur, Ill., U. S. A.

We are the Oldest and Largest Manufacturers of

**SCREWS and
BICYCLE PARTS**in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

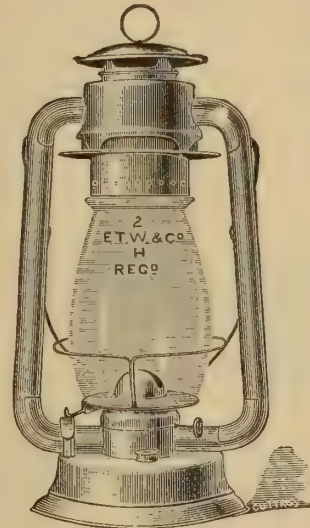
The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.

E. T. WRIGHT & CO.

Manufacturers of

Milk Can
and
Creamery
Trimmings
Stamped and
Pieced
Tinware
Bird Cages
Flour Sifters
Mouse Traps**HAMILTON - CANADA.**

BINDER TWINE

PURE MANILA,
650 ft. to the lb.**SPECIAL MANILA**

TIGER

STANDARD

There is none
"just as good."These twines will not bunch at the knotter, and a Binder will run
all day with them without stoppage, thus saving time, annoyance and
an endless lot of trouble.We pack our twine in bags of the size of ordinary grain bags and
are not ashamed to put our name upon them. Don't take any other.**CONSUMERS CORDAGE COMPANY, Limited**
Montreal.

TORONTO BOARD OF TRADE OFFICERS.

TUESDAY was nomination day at the Toronto Board of Trade. The president, vice-presidents and treasurer were all elected by acclamation, as follows:

President..... A. E. Kemp.
First Vice-President... A. E. Ames.
Second Vice-President. W. E. H. Massey.
Treasurer J. L. Spink.

The following were nominated, 15 to be elected: Jas. D. Allan, A. A. Allan & Co.; Hugh N. Baird, Crane & Baird; C. W. Band, Jas. Carruthers & Co.; Wm. Christie, Christie, Brown & Co.; A. R. Clarke, leather and glove manufacturer; F. W. Cockshutt, general merchant, Brantford; Barlow Cumberland, vessel owner; R. A. Donald, Pure Gold Mfg. Co.; John F. Ellis, The Barber & Ellis Co.; W. G. Gooderham, Gooderham & Worts, Limited; Ed. Gurney, The Gurney Foundry Co., Limited; W. J. Gage, publisher; Peleg Howland, wholesale hardware; Wm. Ince, jr., Perkins, Ince & Co.; Geo. Keith, seed merchant; W. D. Matthews, W. D. Matthews & Co.; W. C. Matthews, R. G. Dunn & Co.; J. F. Michie, retail grocer; John Pugsley, soap manufacturer; Elias Rogers, The Elias Rogers Co., Limited; Wm. Stone, Toronto Lithographing Co.; C. C. VanNorman, Harvey & VanNorman; D. R. Wilkie, general manager Imperial Bank.

Mr. A. E. Kemp, the new president, is to be congratulated upon his elevation to the highest office in the gift of the board. In the less important offices which he has hitherto filled in the board he has proved himself to be an energetic and painstaking officer. He was elected to the second vice-presidency, when it was felt that a man like he was needed in the councils of the concern. He was elected by acclamation. His experience was the same in regard to the first vice-presidency, and now, again, with the presidency, he has been elected without opposition.

OVERBUYING.

The tendency to overbuy seems to be one of the greatest difficulties that the retail merchant of the period has to overcome, writes J. H. Parnell in an exchange. Many

a merchant goes to the market, and, as it would seem, buys with the idea that he is purchasing something that cannot be duplicated. When buying, he does not seem to look into the future, realizing that the bills he is making are to mature. How much better, on the other hand, would it be for him to buy a bill, say to-day, and in 60 days duplicate it, thus spreading the payments, than to buy the whole amount at one time, making it all fall due at one time. How much discount could he save upon this plan? Many times he could discount his bills by splitting them up, whereas, by making them large at the beginning of the sea-

after an order is given until the goods are in the store of the merchant. This justifies frequent purchases in comparatively small amounts. How many times are letters received by the wholesaler and the jobber from a retail dealer, saying: "I cannot possibly send you a cheque at present. Much to my regret, I find my stock very little broken. I am afraid I am overstocked." Then it became evident that had the merchant bought lighter, he would have been in better shape to meet his bills.

Almost any house would prefer an account that is active—that is, where purchases are made frequently, with the bills maturing at different dates—to an account in which the purchases are made only two or three times a year, in large amounts, at the maturity of which it is necessary to close the account by notes. Every merchant has felt, at one time or another, the ill effects of being overstocked. The chief trouble is that they do not profit by experience.

My advice to all is this: At the opening of the season, buy a good assortment, and then duplicate the goods as you find you need them.

By adhering to this plan you will find that at the end of the season you will be in a position to purchase an entirely new line of goods, without finding it necessary to sell off at a loss what you would otherwise carry over at a considerable cost, and at the same time find yourself overstocked.

TAXES IN ST. JOHN.

At a meeting of a joint committee representing the board of trade and the city council of St. John, N.B., the following

resolution was adopted:

Resolved: That the present system of taxing personal property and income be abolished, and that the common council be respectfully requested to consider the adoption of a measure based on the principles of the Montreal system of assessment and that proposed in Halifax, so far as the same may be applicable to the peculiar circumstances of St. John.

Frank L. and L. J. Gleeson have bought out T. B. Willis, general merchant, Brougham, Ont., and have opened up under the style of Gleeson Bros., with a clean, new stock of all kinds of goods. Mr. Willis is opening up a general business in Markham, Ont.



PRESIDENT A. E. KEMP.

son, he is driven to the necessity of letting them run to maturity, or even worse, he finds it necessary to take them up by notes.

The retail merchant should realize that by cautious buying he almost entirely eliminates the chance of being overstocked. The moment a merchant gets into the condition of being overstocked he wants an extension. For the most part he attributes the cause of his embarrassment to the weather, or to the condition of the crops, whereas the true reason is that he has been carelessly overbuying.

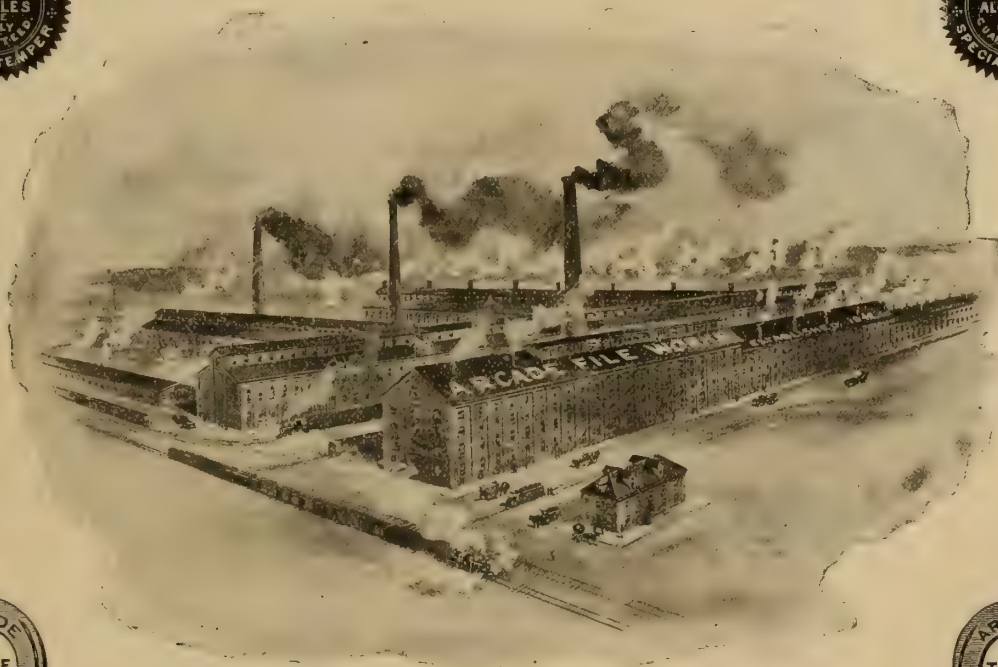
The condition of business to-day is such that it is only a matter of a very few days

If it's an ARCADE, it's THE BEST.

That the ARCADE FILE WORKS at Anderson, Indiana, is the largest and most completely equipped plant for the manufacture of files in the world, is a minor point. Its product is what you are interested in, and the ARCADE product stands at the head of file production for the common-sense reason that their methods and facilities are ahead of their competitors.

Mr. Alfred Weed, who is the superintendent and mechanical head of the company, is one of the oldest file makers in the United States, and has probably taken out more patents on file machinery than any other living manufacturer. The entire plant at Anderson is the product of his skill and practical experience, comprising machinery especially designed for turning out every detail of the work, not only by the most careful and systematic methods, but with the greatest possible saving of time and money. Fifty Cents goes as far here as a Dollar in many of the old-fashioned plants. Then, too, the company owns a tract of natural gas land from which their fuel supply is drawn—the cheapest fuel in the world; and buyers of ARCADE files get the advantage of all these economies by the increased value of the product.

WEED'S PATENT INCREMENT CUT FILES.



ARCADE FILE WORKS, ANDERSON, IND., U.S.A.

Established 1842.

NEW YORK: 97 Chambers St.

CHICAGO: 118 Lake St.

These facts show why it is safe for us to sell files under our guarantee that **THEY WILL CUT FASTER AND WEAR LONGER THAN ANY OTHER FILE ON THE MARKET, OR WE WILL MAKE NO CHARGE.** All our files have Weed's Improved Increment Cut, which equals the best English Hand Cut.

If you use files take advantage of this offer on a trial order, however small. There's absolutely no risk to you in the trial.

If it's an ARCADE, it's THE BEST.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Jan. 20, 1899.

HARDWARE.

THE prominent fact in general hardware is the strong tone displayed by several leading lines, as a result of the sharp appreciation in the cost of raw material. Wire and wire nails are examples in this respect, but, though makers are asking more money for fresh supplies, there are some jobbers here still accepting orders for both lines at the old low figures, as they had stocked up well at the old level of values. As a result of their action, therefore, values, both on wire and wire nails, are irregular. How long they will continue to be so depends upon the jobbers in question. In all other lines of material the tendency is strong as to value, while the volume of business, though not extensive, is gradually assuming fair proportions.

BARB WIRE—The feeling is firm in barb wire, but the jobbing range here is not quotably changed, the base being \$2 f.o.b. Montreal.

PLAIN WIRE—In sympathy with the advance in raw material, the feeling is very firm in plain wire also, and values show an upward tendency, though some jobbers here are still accepting orders on the old basis.

WIRE NAILS—While makers are asking an advance of 5 to 10c. for these, there is great irregularity regarding the jobbing basis, and supplies are still obtainable here at a surprisingly low figure, in fact, orders have been accepted during the week on the basis of \$1.70, but this stock could not be replaced from makers' hands at any such basis.

CUT NAILS—Demand is light for these and prices are steady on the basis of \$1.75 f.o.b. Montreal, Toronto, Hamilton and London, with the usual rebate of 5c.

HORSE NAILS—There was even a better demand for these. Discounts are 50 per cent. on Standard, and 50 and 20 on Acadia brand.

HORSESHOES—Jobbing demand is fair for these, and prices are steady. We quote: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and

new light pattern, all sizes, \$3.35; shoe weight, \$5.50.

SCREWS—There has been a decided advance in this line. Discounts are: Flat head bright 85½ and 5; round head do., 77 and 5; flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass, flat head, discount 27½ per cent.; round head, 22½ per cent.

BOLTS—Business in these has been quiet. Discounts are: Carriage bolts, ¾ to 5-16, 70 per cent.; ¾ and up, 60 and 10; machine bolts, ¾ and 5-16, 70 per cent., and ¾ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—Rule quiet and unchanged with discounts 65 per cent. on black and tinned and 45 per cent. on copper.

CORDAGE—Trade is quiet and values continue much the same. We quote: Sisal, 7-16 and up, 9½ to 11c., and Manila 10½ to 12c., according to size; smaller sizes than 7 16 1c. advance on the above range.

CHURNS—There is a fair trade in these, while quotations are unchanged.

OIL STOVES

Something New for 1899

We would advise our customers not to place their orders for Oil Stoves till we show you our new line.

Our travellers will call on you in the near future with full particulars and prices.

**A Perfect Wonder.
Economical on Fuel.
Simple in Operation.**



**Don't contract for 1899 season
until you have seen ours. .
If you want your goods quickly,
order from McClarys.**

The McClary Manufacturing Company

LONDON

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Demand, of Apollo, perfection: no less.

Whatever falls short, return to your dealer at his expense.

Apollo Iron and Steel Company
Pittsburgh

**Fire Bricks and Fire Clay
Boiler Seating Blocks
Gas Retorts
Stove Linings and
Grate Backs
Portland Cements**

F. HYDE & CO.

31 Wellington street, MONTREAL
Importers and Dealers.

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,

Manufacturers of Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

CLOTHES WRINGERS—Only a small trade is noted, and prices are unchanged at \$26 to \$30, as to brand.

HINGES—Steady, with some inquiry this week. We quote as follows: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

CUTLERY—There is a good strong trade passing.

SKATES—These are still moving out well in a sorting way.

SLEIGH BELLS—Demand has been of a steady character, and jobbers' stocks are poorly assorted owing to delayed deliveries.

CEMENT—Without new feature, and values are firm. We quote: English, \$2.25 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10.

FIREBRICKS—Trade fair and values steady at \$18.50 to \$24 per 1,000, as to brand.

METALS.

Strength is the dominant factor in heavy iron and hardware generally, and leading staples, in addition to being firm at the rise, show distinct signs of still further appreciation. Many leading lines of raw material also have recorded a sharp rise, and, naturally, the fact has its influence on the finished articles. Tin, copper, spelter, sheet zinc, etc., have been notably firm, and point still higher.

PIG IRON—This material has a strong upward tendency, and, as soon as demand sets in earnest, buyers will very likely have to pay more money. We quote: No. 1 Hamilton, \$15.25 to \$15.50; No. 2, \$14.50, and Ferrona, No. 1, \$15.25 to \$15.50. Scotch pig is stiff at \$18.25 to \$19 for Summerlee and equal brands.

BAR IRON—Business is quiet, but, with raw material steadily advancing, makers here are asking more money for contracts on forward account. In a jobbing way, we quote \$1.40 to \$1.45, though there is still some iron obtainable for less money when it is the case of a car lot.

HOOPS AND BANDS—Demand is light, but values are firmer, and none are now obtainable under \$2

SHEET STEEL—Quiet, but firm in tone. We quote: 10 to 16 gauge, \$2.15; 18 to 20 gauge, \$1.90; 22 to 24 gauge, \$2.10; 26 gauge, \$2.20, and 28 gauge, \$2.25.

GALVANIZED IRON—For forward delivery, more money is asked, and sales-agents here predict still higher prices, but there has been no change for goods from stock in hand, though values are naturally very firm. We quote: No. 28 "Queen's Head," \$4 to \$4.15, and "Comet," No. 28, \$3.75.

INGOT COPPER—The advancing tendency of this metal continues, and round lots have

All kinds, sizes, and shapes of

Box
Strip
Hoop
Sheet

STEEL

Plates
Angles
Beams
Channels

Imported to Order.

Sanderson's Tool Steel

IN STOCK.

A. C. LESLIE & CO.

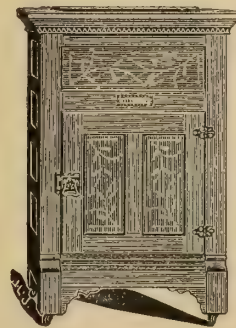
MONTREAL

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited

BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

sold at a rise of $\frac{1}{2}$ to $\frac{3}{4}$ c. per pound. In a jobbing way we quote 14 to 14 $\frac{1}{4}$ c.

SHEET COPPER—This line has advanced all round in sympathy with the rising tendency at primary markets. We quote: 16-oz., 18c., and 14-oz. 19c.; tinned copper, 16-oz., 20c.; 14-oz., 20c., and planished 14-oz., 25c.

INGOT TIN—This metal has again ruled firm, and Straits in round lots has sold at an advance of 2c. per lb., and we quote 23 to 23 $\frac{1}{2}$ c. in a jobbing way, with Lamb and Flag, 24c.

PIG LEAD—Manufacturers have been in the market for considerable quantities of this metal, and have had to concede an advance of $\frac{1}{2}$ to $\frac{3}{4}$ c. In a jobbing way we quote \$3.90.

IRON PIPE—Trade is quiet and values steady. We quote: Black pipe, $\frac{1}{4}$ -inch, $\frac{3}{4}$ -inch, and $\frac{1}{2}$ -inch, \$2.35; $\frac{3}{4}$ -inch, \$2.80; 1-inch, \$3.85; 1 $\frac{1}{4}$ -inch, \$5; 1 $\frac{1}{2}$ -inch, \$6.70, and 2-inch, \$9. Galvanized, $\frac{1}{2}$ -inch, \$3.95; $\frac{3}{4}$ -inch, \$4.80; 1-inch, \$6.65; 1 $\frac{1}{4}$ -inch, \$9.15; 1 $\frac{1}{2}$ -inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—Without change, but very steady. We quote ordinary, 7c., and composition waste, 7 $\frac{1}{2}$ c., with 25 per cent. discount.

CANADA PLATE—For spring importation very firm figures are asked, but values from stock here are unchanged. We quote: 52's, \$2.15 to \$2; 60's \$2.30; 75's, \$2.35; full polished, \$3; galvanized Canada plate, 52's, \$3.75.

TINPLATES—Advices are quite stiff on tinplates for spring importation, but there has been no change here. The demand is quiet. We quote: Coke, I.C., \$2.90 to \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.25; do, I. X., \$4.10 to \$4.25; Lincoln, \$3.50; P.D. Crown, I.C., \$3.95; do, I.X., \$4.95; Bradley's, \$5.75.

TERNE PLATE—Firm, and unchanged at \$6 to \$6.25.

COIL CHAIN—There has been no change in coil chain. We quote: $\frac{1}{4}$ -inch, \$4.75 5-16, \$3.50; $\frac{3}{8}$, \$3.15; 7-16, \$3; $\frac{1}{2}$ -inch, \$2.80 and $\frac{3}{4}$ up, \$2.80.

SHEET ZINC—Car lots have sold at pretty firm prices, and we quote 7c. in a jobbing way.

SOLDER—Some fair lots have been moved during the week at full prices, and the jobbing range is firm at 12 $\frac{1}{2}$ to 13c.

ANTIMONY—Quiet and rather easier, at 9 to 9 $\frac{1}{2}$ c.

SPELTER—In fair demand and higher, round lots selling at an advance during the week, so that jobbers are asking more money. We quote: American, 6c.; V.M., 6 $\frac{1}{2}$ c.

GLASS.

There has been no alteration in the market for window glass, which rules

steady. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

All raw materials are advancing, and it is considered only a question of time, if the appreciation continues on the same scale, when values on the finished material will have to be marked up. Turpentine, dry lead, and zinc are all higher in cost, so that ready-mixed paints should advance in the natural order of affairs before the new season opens.

WHITE LEAD—Best brands, Government standard, \$5.62 $\frac{1}{2}$; No. 1, \$5.25; No. 2, \$4.87 $\frac{1}{2}$; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, 4 $\frac{1}{2}$ c.; kegs, 4 $\frac{3}{4}$ c.; No. 1, casks, 4 $\frac{1}{4}$ c.; kegs, 4 $\frac{1}{2}$ c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Quiet at 8 $\frac{1}{4}$ to 8 $\frac{1}{2}$ c.

SEAL OIL—37 to 40c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4 $\frac{1}{2}$ to 5 $\frac{1}{2}$ c. for colored, and 6 to 7 $\frac{1}{2}$ c. for white; oakum, 5 $\frac{1}{2}$ to 6 $\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PETROLEUM.

Firm, with a fair business doing. We quote: "Crown Acme," the new Sarnia oil, is selling at 15 $\frac{1}{2}$ c. in small quantities; Canadian refined, 14c.; American prime white, 17c.; water white, 18c.; Pratt's astral, 19 $\frac{1}{2}$ c.

ASHES.

Quiet and steady. We quote: First pots, \$4.05 to \$4.10, and seconds, \$3.75 to \$3.80 per 100 lb.

HIDES.

Business quiet. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

OAKEY'S

'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
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Force
Lift
Cistern

Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
Galt, Canada.

PERSONS addressing advertisers
will kindly mention having
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Canadian Hardware and Metal
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To Our Patrons

We extend
prosperity and
inform the year

OUR best wishes for
happiness dur-
1899 and beg to
that our new

CATALOGUE

is now in print
about 1st February.
been revised to
and many new and

and will be ready
Our prices have
meet competition
desirable lines

OF BRUSHES

have been added.

It will pay you to

See it before placing your orders.

MEAKINS & CO.

313 St. Paul St. - - Montreal.
(4)

MONTREAL NOTES.

There has been an advance in screws of about 14 per cent. all round.

Jobbers are asking more money for hoops and bands this week, \$2 now being the inside price.

Round lots of ingot copper have changed hands here at a rise of $\frac{1}{2}$ c. on last week's level.

There has been a sharp rise in ingot tin, jobbing prices being fully 2c. higher this week.

Though makers are asking more money, local jobbers are still selling wire nails at a low price.

The rise in billets and rods, the manufacturers' raw material, has been fully \$3 per ton from the low point.

ONTARIO MARKETS.

TORONTO, Jan. 20, 1899.

HARDWARE.

THE feature of the hardware trade this week is the strength of wire and all goods the manufacture thereof. Wire nails are quoted higher, \$1.90 now being a firm figure. Oiled and annealed, annealed and bright wire have been advanced, in some instances considerably, and brass and copper wire also show an advance in value. Screws have been advanced in price, about 14 per cent. The volume of business this week is rather better than might be expected, and the feeling is one of satisfaction. The demand for wire nails is good, and would be a great deal better if concessions as to price could be obtained from the manufacturers. Cut nails are quiet. There is a fair trade being done in horse nails and horseshoes for this time of the year, and business in screws is good. A demand is beginning to open up for tire bolts, but rivets and burrs are still quiet. Rope shows a reduction in price of about $\frac{1}{2}$ c. A good many orders are just now being booked for forward delivery in screen doors and windows, harvest tools, churns, rope, etc.

BARB WIRE—The demand is still practically nil for barb wire, and prices are unchanged at last week's advance. We now quote f.o.b. Toronto: Four-point, \$2; 2-point, \$2.05; safety, \$2.10; plain twist, \$2.05; staples, \$2.25 for galvanized, and \$2 for bright. There is not much doing, however, as far as business is concerned.

WIRE—The price of bright, oiled and annealed and annealed has been advanced, and the manufacturers have discontinued the delivery terms, prices now being quoted f.o.b. factory point. The discount is 25c. f.o.b. Hamilton and 35c. f.o.b. Montreal, the difference in discounts being on account of the difference in lists. No. 9 galvanized fencing is quoted at \$1.75 to \$1.80; No. 12 do. at \$1.90 to \$1.95; No. 13 do., \$2. In



"Time Costs Money."

One of the chief points of **HAYES' PATENT STEEL LATHING** is that it can be more quickly applied and requires less mortar than any other lathing.

In the end it costs no more than poorer kinds and is eminently superior in durability. It clinches and holds the mortar so firmly that it can never crack or drop off.

It is Fire, Water and Vermin Proof—used in the best modern buildings because of its proved superiority.

Send for our catalogue for full information.

METALLIC ROOFING CO., Limited

1179 King St. W., Toronto.

brass and copper wire, the discounts have also been reduced, and prices show an advance of about 15 per cent.

WIRE NAILS—The market is decidedly firm, and manufacturers are quite unconcerned as to whether they get orders or not, as they feel that prices will go much higher than they are at present, on account of the strong tone in the United States. The base price is now firm at \$1.90, and, in some instances, \$2 is being obtained. For the first time since nobody knows when, the manufacturers are now independent in their tone.

CUT NAILS—The market is still quiet, and with prices firm and unchanged at \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—Trade in this line is still moderate. Discounts are: Standard, oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—The market is still quiet. We quote: Iron shoes, light, medium, and heavy, \$3.25; f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—The feature in this line is a reduction in the discount, making an increase in price of about 14 per cent. There is still a good demand being experienced. We quote discounts: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

BOLTS—A demand is beginning to spring up for tire bolts, but in other lines business is quiet. We quote: Common carriage

bolts, $\frac{1}{4}$ to 5-16 inch, 70 per cent.; ditto, $\frac{3}{8}$ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 60 and 10 per cent.; coach screws, 70 and 10 per cent.; blank bolts, 60 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, 4¾c.; hexagon, 5¼c.

RIVETS AND BURRS—Business in this line continues to be quiet and featureless. We quote: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 45 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Prices show a reduction of about $\frac{1}{2}$ c. per lb. in both sisal and manila compared with our last quotations. The demand keeps quiet. We quote as follows: Sisal, 7-16 in. and larger, 9¼c.; $\frac{3}{8}$ in., 9¾c.; $\frac{1}{4}$ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; $\frac{3}{8}$ in., 10½c.; $\frac{1}{4}$ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Orders are being booked for future delivery, and this is the most interesting feature in this line. We quote as follows delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

CLOTHES WRINGERS—Business is quiet. We quote: "New Leader," "Lightning,"

\$30 per doz.; "Royal Canadian," with brass corners, \$29.50; "Novelty," \$26; "Royal American," \$26.

BUILDING PAPER—The volume of business is still small. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

CEMENT — There is nothing doing. Dealers state that prospects are bright. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do., \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

METALS.

There is a decidedly strong feeling in the metal market, the prices in several lines still tending upward.

PIG IRON—The market is strong, and manufacturers, in many instances, will only quote on application. A great deal of business has been done in pig iron in Toronto since the beginning of the year. One United States house is said to have sold 4,500 tons here since January 1, on Toronto account, at prices which average \$15 per ton, but it would not repeat orders at this figure.

BAR IRON—The market is quiet, with base price unchanged at \$1.45 from stock and \$1.35 from factory.

BAND IRON—Dull. We quote as follows: \$1.65 to \$1.75 per 100 lb. for Canadian and \$2 for imported.

SHEET STEEL—Trade is still dull. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

BLACK IRON—Business is without improvement. We quote: 10 to 12 gauge, \$2.25 to \$2.40 per 100 lb.; 14 to 16 gauge, \$2.60 to \$2.70; 18 to 20 gauge, \$2.30 to \$2.40; 22 to 24 gauge, \$2.25 to \$2.35; 26 gauge, \$2.30 to \$2.40; 28 gauge, \$2.45 to \$2.55.

GALVANIZED IRON—Very few orders for prompt shipment are being received, and most of the orders for spring delivery have been booked. We quote as follows: Queen's Head, 16 gauge, \$3.75; 18 to 24, \$4; 26, gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3.15; 18 to 24, \$3.30; 26 gauge, \$3.55; 28 gauge, \$3.90. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. In "Queen's Head," less than case lots are quoted 25c. per 100 lb. higher than above figures.

INGOT COPPER—While trade is quiet, the tendency of the market is still upward in sympathy with New York and London. We now quote 15 to 15½c. per lb.

PIG TIN—There have been further sharp advances in the primary market, and local quotations are firm and unchanged at last week's figures, namely, 24c. for Lamb and Flag and 23½c. per lb. for Straits.

PIG LEAD—The market keeps firm and quiet. We quote 4c. for imported.

LEAD PIPE—Trade is still quiet. We quote: Ordinary pipe, 7c., and composition waste, 7½c., with 25 per cent. discount.

IRON PIPE—The Canadian makers have withdrawn quotations. In the United States there are rumors of a consolidation of the pipe-making interests, but it does not appear yet to be well defined. We quote: Black pipe, per 100 feet, ¼ to ¾ inch, \$2.30 to \$2.40; ½ inch, \$2.30 to \$2.35; ¾ inch, \$2.80 to \$2.85; 1 inch, \$3.90 to \$3.95; 1¼ inch, \$5.14 to \$5.20; 1½ inch, \$6.75 to \$6.86; 2 inch, \$9.10. Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$6.75; 1¼ inch, \$9.15; 1½ inch, \$11.75; 2 inch, \$16.

RANGE BOILERS—Trade keeps fair. We quote: Galvanized, 30 gals., \$5.25; 35 gal., \$6; 40 gal., \$7; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—Very little doing. We quote: All-bright, \$2.85 to \$3; half-polished, \$2.35; all-dull, \$2.25.

TIN PLATES—Trade keeps fair and prices firm. In the United States, there has been an advance of 10c.

COIL CHAIN—Quiet. We quote as follows: ¼ in., \$4.65; 5-16 in., \$3.75; ¾ in., \$3.25; 7-16 in., \$3.15; ½ in., \$3.10; ¾ in., \$2.80; ¾ in., \$2.75.

SHEET ZINC—Trade is quiet. We quote 7½c. for cask lots, and 7½c. for smaller lots.

ZINC SPelter—Market is firm and quiet. We quote: 5¾ to 6c. for imported.

SOLDER—There has been a further advance in prices. Quotations have, however, a somewhat wide range. We quote: Half-and-half, 15½ to 16c.; and refined at 14½ to 15c. per lb.

PAINTS AND OILS.

Notwithstanding the fickle weather which has prevailed during the last week there has been a life and animation to trade generally, which is extremely encouraging. The shipping movement, considering the time of year, has been very satisfactory, while orders are booked by travelers for later delivery in gratifying quantities.

The improved call for venetian reds and oxides would serve to show that a good deal of outside painting is contemplated, and the demand for these natural paints may be said to be good.

Vermilions are firm in sympathy with orange mineral, which has advanced fully 50c. per 100 lb. Yellow ochres are slow of sale, the new soft and useful golden ochres having replaced them to a large extent.

White lead maintains its preeminence as the leading feature in all good sized paint and oil orders, while the sales of outside zinc have been checked to some extent by the recent sharp advance. Kalsomine is easier in price with light sales. In paris green, no change in the situation can be reported, and the business is still in rather an unsatisfactory condition. Coach colors, ground in japan, have been going out in good sized shipments, but housepainters' requirements are quiet.

There is no change in gold leaf, bronzes and sundries. Liberal orders are being received for liquid paints, and the trade in this item promises to beat all records. There is no change in the turpentine market, which keeps firm. Linseed oil has been reduced 1c. this week at Toronto and western Ontario points, though prices are unchanged in eastern Ontario. Boiled is now offered in Toronto at 52c., and raw at 49c. At outside points, prices are 1c. higher. This decline is not due to weakening market, but is an inducement to country dealers to place orders now for spring delivery. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$5.75; No. 1, \$5.37½; No. 2, \$5.00; No. 3, \$4.62½; No. 4, \$4.25; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.75; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 6½ to 7½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 50c.; boiled, 1 to 4 barrels, 53c. Prices in Toronto, Hamilton, London are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 63c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

A quiet movement is reported. Prices firm. We quote: Star, first break in 50-foot

boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

Machinery cast has declined 7c. this week, as the demand is very dull. Otherwise no change is reported. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per per lb.; bottoms, 8c.; heavy copper, $8\frac{1}{4}$ to $8\frac{1}{2}$ c.; light scrap brass, 4 to $4\frac{1}{2}$ c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, $7\frac{1}{2}$ c.; scrap lead, $2\frac{1}{8}$ to $2\frac{3}{8}$ c.; zinc, $2\frac{1}{4}$ c.; scrap rubber, $3\frac{1}{2}$ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES—An excellent demand continues, with prices firm and unchanged. We quote cow hides as follows: No. 1, $8\frac{1}{2}$ c.; No. 2, $7\frac{1}{2}$ c.; No. 3, $6\frac{1}{2}$ c.; cured, 9 to $9\frac{1}{4}$ c. Steer hides are worth $\frac{1}{2}$ c. more.

CALFSKINS—We quote nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c.

SHEEPSKINS—An advance of 5c. is noted for sheepskins and lambskins, which are now worth 85c.

WOOL—No change. Market weak. We quote fleece at 15c. and unwashed at 10c.

SEEDS.

There is little doing. An occasional sale of red clover for domestic consumption is reported at \$3 to \$3.50 aboard outside for good to choice seed. Alsike is also moving quietly at all the way from \$2.50 to \$4. As no timothy is offering locally, some shipments have been imported from western United States markets.

COAL.

Prices continue firm, and a scarcity of small sizes is still manifest. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton, or \$3.79 per net ton.

PETROLEUM.

The demand continues excellent, with prices unaltered. We quote at Toronto: Canadian, $13\frac{1}{2}$ c.; Sarnia water white, 15c.; American water white, $16\frac{1}{2}$ c.; Pratt's astral, 16c., in bulk.

MARKET NOTES.

Copper and solder are both quoted higher.

Machinery scrap iron has declined 7c. per cwt.


Wood screws have been advanced 14 per cent. in price.

Bright, oiled and annealed, annealed and brass and copper wire are all dearer.

Linseed oil has declined 1c., and is now quoted in Toronto at 49c. for raw and 52c. for boiled.

Stewart & Wood, Toronto, have secured the agency for Senour's floor paints, a line of eight staple floor colors of high quality, made by The Senour Mfg. Co., Chicago.

76,800 Daily Production.
5 Factories.
5 Brands.
For Sale all over the world.



NICHOLSON
FILES

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS.** Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 35 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.



FARMER JONES.—"Say, neighbor! I really thought you had more sense than to waste your money on them new fangled Egg Crates."

FARMER BROWN.—"I have no regrets, never got so much satisfaction from so small an outlay—wouldn't be without them if they cost three times as much. Just got them about six weeks ago, and I am money ahead already. You will think the same as I do some day."

HAVE THE BEST OR NOTHING



Humpty Dumpty Egg Crates

**Nothing to Equal Them
For Farmers' Use.**

All the loss and annoyance attending old methods done away with by their use.

Send for Circulars and Prices.



The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.

SEND FOR PRICES

Made Exclusively by _____

The DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA.

NEW YORK METAL MARKET.

PIG TIN—The market was distinctly strong. All reports went to show that the movement of metal into distributive and consumptive channels continues fairly free and of sufficient amount to hold values. The importations continue comparatively small, and, as though to give affairs still stronger backing, London prices were run up about 10s. to 15s. per ton. Here some business was effected at 22c. net and 22¼c. f.o.b., but holders generally quoted the basis of 22¼c. for round lots at the close.

COPPER—The market remains in a very strong position, partly on the relation of supply and demand, and partly under speculative bolstering that seems to have more or less substantial support on both sides of the Atlantic at the moment. Prices are strong all along the line, with 13¼ to 14½c. quoted for Lake Superior ingot; 14½ to 14¾c. for electrolytic bars, etc., and 14 to 14¾c. for ordinary casting stock.

PIG LEAD—The demand was fairly large, but chiefly for lots of a few carloads, and specified early delivery in most instances. As far as could be learned, no business has yet taken place at over 4.20c., except in a small way, but holders are asking 4.25c. for all deliveries.

SPELTER—Prices have stiffened to the basis of about 5.35c. for prime western delivered in New York, but business has been momentarily checked by the advance, and there is at present merely fair inquiry.

ANTIMONY—Sales are moderate, but prices remain firm at 8½ to 9½c., as to brand.

TINPLATE—Business is momentarily rather slow, but offerings are smaller and prices firm all through.

IRON AND STEEL—All crude material remains very firm in price, and a very good amount of new business is going on, particularly in pig iron. Manufactured products, generally, are firm and fairly active.—N.Y. Journal of Commerce, Jan. 19.

COPPER CONSOLIDATION RUMORS.

A Boston despatch recently stated that it was reported in that city that the committee representing the majority of stockholders of The Boston & Montana Copper Company is in favor of a consolidation which shall include that company, the Butte & Boston, Parrott and Anaconda interests.

President Haggin, of the Anaconda, when questioned in reference to the despatch said that he knew nothing about the matter. In copper circles it is not generally thought that the Anaconda is likely to go into any proposed consolidation. Much of the gossip of a large consolidation of copper mining interests is regarded as of a stock jobbing character,

but well informed authorities predict that a consolidation of several mines in which the same capitalists are interested is likely to be effected at an early date. Among the companies mentioned in this connection are the Arcadian, owned by Standard Oil interests, the Butte & Boston, in which Standard Oil men are credited with a controlling interest, and Boston & Montana, which is owned partly, if not mainly, by the same parties. The Montana, or purchasing company, it is also said, is likely to be included.

A meeting of copper producers was held in this city recently, but this was merely to discuss production in December, and had no bearing upon consolidation plans. The statements of output for the month were as follows: Produced by United States reporting mines, 16,632 tons; produced by outside sources (estimated), 1,850 tons; produced by foreign reporting mines, 8,436 tons; exports, 13,222 tons—all in tons of 2,240 lb. of fine copper.

The production was considerably less than in the preceding month, which is unusual, as the December output, as a rule, is heavy.

The consumption of copper during the past three months has broken all records, both in this country and in Europe. The increased demand for the metal for electrical purposes is largely responsible. Prices have been advancing rapidly, and lately lake copper sold at 14½c., with offers at that figure refused in some instances.—N.Y. Journal of Commerce.

F. R. Edward's general store in Thurso, Que., was destroyed by fire on Saturday.

NO NECESSITY FOR EMBARRASSMENT.

A traveling man, who had been royally entertained by a prosperous farmer in the outskirts of a little town, where the only hotel had been burned down a few days before, was a little uncertain, when about to depart, whether he should simply return thanks or risk offending his host by offering pay.

"You have placed me under great obligations, Mr. Millsaps," he said. "When I come in from a trip of this kind I am accustomed to turning in an expense account, and it seems to me I ought to put down in it something pretty handsome for this excellent entertainment I have had at your house."

"You can turn in what you durn please," returned Mr. Millsaps. "My bill will be \$16."—Michigan Tradesman.

U. S. COPPER PRODUCTION.

Statistics furnished by Mr. John Stanton afford the following comparative statement of production of copper in the United States:

	1898.	1897.	1896.
January	17,744	17,637	16,072
February.....	17,322	16,819	17,516
March	20,381	18,283	17,922
April.....	22,909	17,454	17,112
May.....	22,741	18,805	16,733
June	19,390	19,653	16,025
July	16,052	15,344	16,595
August.....	19,508	17,409	16,800
September	18,764	17,443	16,977
October	21,129	17,541	18,156
November	19,850	17,427	16,395
December	18,482	22,241	17,619
Total	235,272	216,106	203,922



During 1899 we will sell sundries. We have a number of good lines. We only have good lines.

Every cent you put into sundries ought to go toward buying you good goods. Good goods are the life-blood of your reputation.

Your reputation is the first requisite to success.

Write us for our catalogue. Learn about the "G & J" Detachable, which will eclipse every other tire on the market.

AMERICAN TIRE CO.
Limited

166 King St. West,
Toronto.



SUMMER STOVES for '99.

We are gratified at being able to inform the trade that we are again this year Sole Agents in Canada for the well-known "QUICK MEAL" Gasoline and Blue Flame Oil Stoves.

Last year the "Wickless" Quick Meal Blue Flame Stove was made in small quantities, and had so extraordinary a success that it is now manufactured in full lines.

Don't place any orders before learning full particulars about these popular "better than ever" lines.

THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

OUR MOTTOES :

**Good Goods. Most Attractive Packages
Moderate Prices.**

IT WILL PAY YOU

Our new half-pint and pint lithographed tins are the handsomest packages on the market.

Just the thing for retailers—showy convenient, and moderate in price.

Our travellers are now on the road with a full line of samples, and it will be well to wait for them.

All our goods are made under personal supervision of an expert.

New processes have been adopted, lessening the cost, and our varnishes are now second to none in quality and price.

All letter orders or enquiries will be promptly attended to.

TO SEE OUR PRICES

JNO. COX & SON

VARNISH MANUFACTURERS

St. Patrick Street,

MONTREAL

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

GEORGE LAVOIE, general merchant, St. Octave, Que., is offering 30c. cash, on the dollar.

J. T. Pouliot, general merchant, L'Islet, Que., is offering 50c. on the dollar.

N. H. Turcotte, general merchant, Broughton Station, Que., is seeking an extension.

Assignment has been demanded of Joseph H. Brodeur, general merchant, Varennes, Que.

Anthime Jacques, general merchant, Lotbiniere, Que., has compromised at 40c. on the dollar.

Assignment has been demanded of Alphonse Gaumond, general merchant, St. Jean Des Chaillons, Que.

PARTNERSHIPS FORMED AND DISSOLVED.

P. A. Collette & Co., general merchants, St. Remi, Que., have dissolved.

Mellor Bros., painters, etc., Rossland, B.C., have dissolved, Frank Mellor retiring.

Chas. L. Carter, general merchant, Hopewell Cape, N.B., has admitted — Steeves under the style of Carter & Steeves.

J. P. Desilets and Frank Gouin have registered partnership under the style of Desilets & Gouin, electricians, Three Rivers, Que.

Leonidas U. Charlebois and Abonduis Martineau have registered as partners, under the style of Charlebois & Martineau, bicycle dealers, Montreal.

Jas. Hutton & Co., wholesale hardware and railway supply dealers, Montreal, have dissolved, Hy. W. DeCourtney retiring, and Geo. J. Crowdy continuing, under the old style.

SALES MADE AND PENDING.

The assets of Ferdinand Lavoie, general merchant, St. Eugene, Que., have been sold.

The stock of Ira A. Byce, general merchant, Kars, Ont., has been sold at 28c. on the dollar.

A. Chesher, engineer and mechanic, Georgetown, Ont., is advertising auction sale of machinery, etc.

The assets of N. F. Watier, blacksmith, Cummings Bridge, Ont., have been sold under chattel mortgage.

CHANGES.

Bliss H. Dodd, general merchant, Sussex, N.B., has retired from business.

John McKenzie has retired from business as harness dealer in Vancouver.

F. E. Piper & Co., manufacturers bricks, Revelstoke, B.C., have sold out.

The Londonderry Iron Co., Acadia Mines, N.S., has gone into liquidation.

Eus. Rene has registered as proprietor of Richard & Co., general merchants, Nicolet, Que.

The Beaver Portland Cement Co., Limited, Montreal, has obtained charter of incorporation.

John Rutherford, tinware and stove dealer, Gorrie, Ont., has been succeeded by P. Harding.

Alexandrina Paradis, wife of Victor J. Gagne, has registered as proprietress of V. J. Gagne & Cie., painters, Montreal.

FIRES.

Fred. R. Edwards, general merchant, Thurso, Que., has been burned out.

Joseph Meade & Co., general merchants, Coaticooke, Que., have been burned out; partially insured.

DEATHS.

H. R. Cross, lumber dealer and sawmiller, Weedon Station, Que., is dead.

NEW FIRMS COMMENCING.

Geo. W. Copp has opened out in business as carriagemaker in Sussex, N.B.

The Nelson, B.C., Hardware Co. is opening a branch store in Greenwood City, B.C.

The Sheppard Lumber Co., Limited, Orillia, Ont., has been incorporated.

O. Forest is opening out as dealer in asbestos in Ottawa.

THIS PAINT IS SUITABLE FOR EXTERIOR AND INTERIOR DECORATION.
IT IS PURE WHITE, EXTREMELY DURABLE, INTENSELY STRONG
IN BODY. WILL NOT FLAKE, CHALK, NOR CRACK.

WHITE CROSS BRAND

PERMANENT WHITE

For

PAINTERS

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AND

DECORATORS

TRADE

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THE CANADA PAINT CO. LTD.

THE WHITE CROSS BRAND IS A LITTLE CHEAPER
 THAN PURE WHITE LEAD.
 UP-TO-DATE PAINTERS WILL USE IT.
 ORDER HALF-A-TON, YOU WILL REPEAT IT.

SEWALL & DAY CORDAGE CO.

Established 1835.

BOSTON, MASS.

Binder Twine.



This Brand is a guarantee of the Best
Binder Twine made.

T. BURROWES ROSS

Canadian Representative,

417 Board of Trade Building, - - - - **MONTREAL**



**Write
for Prices.**

A VARNISH FOR HARDWAREMEN.

IN the early 80's John Cox was engaged by Watson, Jamieson & Co. as manager for their varnish factory, and so well did he attend to his business that, at the end of two years, he was admitted to a partnership under the style of Watson, Cox & Co., and when, two years later, Mr. Watson died, Mr. Cox took over the whole business and ran it as John Cox & Co., until two years ago, when he took in his son as partner and the firm was changed to its present name, John Cox & Son. Mr. Cox, Sr., has been in the varnish business in Montreal for 25 years and is a practical man. Every gallon of varnish sold by this firm is manufactured under his own supervision.

Formerly they paid more attention to the furniture, piano and implement manufacturers, and allowed others to supply the hardware trade, but, about two years ago, they decided that they might as well get a share of the general trade, and accordingly started in for it. They met with so much encouragement that now they have decided to try for more.

They employ four travelers, and their trade is ever increasing. They are now putting on the market a handsome package for next spring's trade. It is a lithographed tin, holding a pint and a half of varnish, and, as it is done in red, black and gold, it will make a good show on the retailers' shelves. As this does not add much to the cost of the goods it ought to be a good seller.

BICYCLES FOR CRIPPLES.

Several modifications of the bicycle were described a short time ago at one of the Berlin medical societies, which have recently been introduced with the object of making the machines serviceable in the treatment of morbid conditions, more especially of the joints. Cases of partial uselessness of the hip, the knee, and more particularly the ankle, not infrequently occur in which the frequent repetition of certain strictly limited movements is distinctly beneficial. The great point, a medical authority says, is that the movement be limited in range so as never to overpass the point at which pain and spasm are produced, and it is here that the accurate adjustment which is possible in the mechanical arrangement of the cycle becomes of service, for it is easy, by arranging the gear and the length of stroke in the pedals, to suit the power in the affected side, to obtain just the range of movement which is required for the particular case. For those who are skilled riders, these adjustments can be made on the bicycle, and it is, therefore, a problem to which cycle agents and

repairers will more or less frequently be called to devote their attention. It may generally be stated that anyone who is able to run the machine with one foot will, by properly adjusting the pedal on the ailing side, be able to bring the method into play if his malady should be one suitable for these exercises.

INCREASING UNITED STATES IRON PRODUCTION.

THE IRON AGE, in its monthly review of the pig iron production, says: "The blast furnaces of the United States entered the new year with a productive capacity engaged beyond that ever reached in this country. Yet we have the striking fact that furnace stocks, so far as reported, showed a further decline in December, thus indicating an enormous consumption.

"The weekly capacity of the furnaces in blast on January 1 compares as follows with that of preceding periods:

	Furnaces in Blast.	Capacity Per Week. Gross tons.
January 1, 1899	200	243,516
December 1, 1898	195	235,528
November 1	196	228,935
October 1	192	215,635
September 1	186	213,143
August 1	187	206,777
July 1	185	216,311
June 1	190	225,398
May 1	194	234,163
April 1	194	233,339
March 1	193	234,430
February 1	184	228,338
January 1, 1897	188	226,608
December 1, 1897	191	226,024
November 1	183	213,159
October 1	171	200,128
September 1	161	185,506
August 1	152	165,378
July 1	145	164,064
June 1	146	168,380
May 1	146	170,528

"The position of furnace stocks, sold and unsold, as reported to us was as follows on January 1, the same furnaces being represented as in former months. This does not include the holdings of the steel works producing their own iron:

Stocks—	Aug. 1.	Oct. 1	Dec. 1.	Jan. 1.
Anthracite & coke	625,003	511,413	441,971	402,260
Charcoal	114,285	110,315	107,353	104,315
Totals.....	739,288	621,728	549,024	506,575

STEEL SHIP-BUILDING IN NOVA SCOTIA.

Two steel vessels have recently been completed in the Matheson docks, at New Glasgow, N. S. The St John Sun, in noting the fact, states that there is a good home market for large steel ships, for ordinary trading purposes, if they could be built in St. John, New Glasgow, or any home port at a price to compete with British built ships. One St. John firm alone, on behalf of local companies which it represents, gives an order for a new steel ship every few months, and has already acquired a fleet that the construction of which would have kept a considerable shipyard busy for several years.

ACTIVE DEMAND FOR CALCIUM CARBIDE.

NO less than five Montreal syndicates are being formed for the purpose of utilizing the immense water-power in the vicinity of the city in manufacturing calcium carbide. The demand at present is unlimited and constantly increasing, and now the present manufacturers cannot begin to supply the demand. One firm at Montreal ordered a carload from The Wilson Company, and received an answer that they could not supply a carload, but would be willing to sell them a ton when they could spare it.

The result of the prospective competition will be to reduce the price of carbide to about one-half its present price and greatly increase the use of it for lighting purposes. The Montreal company are so overrun now with orders that they have been compelled to refuse all orders except those used in their own machines.

Besides the five syndicates above mentioned, there is rumor of an English firm starting a large works at Shawenegan Falls, and then there is the Ottawa company. As one dealer said: "The quicker some of them get to work the better, for, as it is now, it is almost impossible to get any at all, and we positively dare not think of supplying any extraordinary demand."

INQUIRING FOR "HARDWARE."

George C. Heyde, of Marion, Ill., has bought out his brother's interest in the hardware firm of Heyde & Bros., and writes asking for a sample copy of **HARDWARE AND METAL**.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.

TRAVELLERS WANTED

WANTED FOR MANITOBA AND BRITISH Columbia good hardware traveller on commission for importing house handling special lines already well introduced; only those having good connection and experience need apply. Address, Box W, **HARDWARE AND METAL**, Toronto. (3)

SPORTSMEN

NOTE

THE ABBEY IMPROVED CHILLED SHOT NEWCASTLE, ENGLAND.

Is made by a NEW PROCESS, and is highly spoken of by Sportsmen and Sporting Papers. Kills at greater distance than Soft Shot. Gunmakers wishing repeat orders should load with this shot.

ARE YOU A BUYER of

**Hardware, Metals,
Paints, Oils, etc.?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by next mail. Address:

The **MacLEAN PUBLISHING CO., Limited**

Board of Trade, MONTREAL,
26 Front St. West, TORONTO.
109 Fleet St., E.C., LONDON, ENG.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker
22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates Gal-
vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.

Cable "LeVesconte" Toronto.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

PARIS ELECTRO PLATING CO.

Manufacturers of

Stove Trimmings, Piano and Organ Trimmings
Piano Stool Feet, Novelties, etc. Bicycle Work
a specialty. Special attention given to Job
Work of all kinds in Brass and Nickel Plating.

We have added a large moulding shop to our establish-
ment, and are making a specialty of fine castings.

PARIS ELECTRO PLATING CO., Paris, Ont.

Quotations gladly given.

The Portland Rolling Mills Co., Limited

Manufacturers of

Refined Bar Iron

Railway Spikes

Pressed Spikes

Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

**"Economical
Profits."**

Can you think of any
two words that mean quite so
much to you and your custo-
mers as "economical profits?"
Your customers learn how to
economize with that perma-
nent, sanitary, easy-to-use,
Water Color Wall Covering,

"Church's Alabastine," and YOU make a snug profit
besides.

A customer's good-will is worth having—it builds up
business! It creates steady trade, and that is what you
want—isn't it? You get it, and with it comes "economical
profits" when you sell

Ready for use with cold
water. (16 beautiful tints and
white.) Won't peel or rub
off. Applied coat over coat—
no sponging or scraping ne-
cessary.

**Church's
Alabastine.**

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

STEVENS ...FINE TOOLS

We make a perfect line
of

CALIPERS and DIVIDERS

Also such tools as Surface Gauges, Tool
Makers' Clamps, Center Punches, etc.

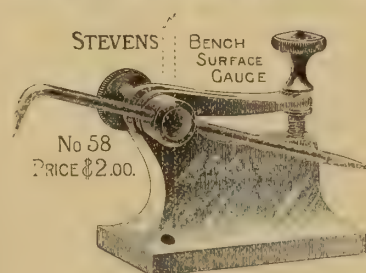
Write for our New Catalogue containing a description of our Tools.
It is also a valuable hand-book of information for mechanics and people
interested in such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216.

Chicopee Falls, Mass, U.S.A.

Carried by our representatives at Toronto and Montreal.



No 58
PRICE \$2.00.

**HUTCHISON, SHURLY & DERRETT**

1078 BLOOR STREET WEST, TORONTO.

Manufacturers of

Cotton, Jute, Hemp and Flax
Twines and Cordage
Mill Banding and Driving Ropes
Chalk and Fishing Lines
Seine Twine, Hammocks, Tennis
Cricket and Fly Nets
Cotton Rope and Clothes Lines
Plough Lines, etc.

HEATING AND PLUMBING

THE FRONT WALL TRAP QUESTION.*

James G. Bayles, M.E., Ph.D.

IN a paper which I had the honor to present, at the last meeting of this association, on the proper requirements of sanitary codes for towns and villages, I embodied somewhat emphatically-expressed objections to the trapping of house drains. The propriety of these objections was challenged in discussion, and, as I was not present to defend my views, I ask permission to state them again, and give, in some detail, my reasons for holding them. In my judgment, a house drain should not be trapped. It should be an arm of the sewer opening, without obstruction, into a rising shaft, commonly known as the soil pipe, which is carried, without angle or diminution of size, to some convenient point above the roof. There is no difference of opinion as to the impropriety of trapping the soil pipe at any point, the old practice which interposed a trap at the foot of the rising line where it turned in the direction of the sewer having been wholly abandoned, and with good reason.

All authorities agree that the soil pipe should not be trapped, but a good many cling to the idea that the householder should interpose a trap between his house and the public sewer. This feeling is akin to that which prompts a man to lock his front door that the people of the street may not enter, and to keep his gate closed that no one may invade his dooryard. The feeling is natural enough, but it does not prompt him to place at the foundation wall the tap that must be turned whenever he draws water, nor to brick up his ventilating inlets lest the air which is free to all should come in. The idea obtains that the sewers are full of disease germs which are charged with the potentialities of fatal mischief, and that, by a quart of water held in the dip of a pipe, he can shut all this out. Let us follow this idea a little further. The sewer into which my house-waste is discharged is a mile long. I live in a select neighborhood, where all the conditions are apparently favorable to health. Half a mile further on we come to a tenement-house district. It is a place where vice, starvation, neglect and zymotic diseases combine to swell the death rate high above the normal average. Why should I not interpose a trap in the sewer between my half of the street and the half where diseases flourish? Because, answers the practical man, any form of trap you can use

will retard the sewage flow and create worse conditions in your half of the sewer than those you are seeking to escape from. For precisely the same reason, I object to trapping the branch of the sewer which serves as a house-drain.

An untrapped house-drain with a sufficient fall is usually clean. The water it carries enters it with a velocity due to a vertical fall of 10, 20, or 30 feet, and usually reaches the sewer without depositing its burden. A trapped house-drain is always foul, and after long use becomes a dangerous nuisance. It carries the sewer in its worst estate into the dwelling and establishes a domestic sewer gas manufactory in the cellar. The emanations from this deposit may not, and probably do not, carry the germs of specific disease, unless these have been planted there; but we do not yet know enough of disease germs to say that the sewers are their hotbeds. On the other hand, we have excellent statistical evidence of the fact that the sewerage of a town is attended with an important change for the better in the public health.

There are many objections to the house-drain trap besides those noted, which need not be detailed at this time. The only argument for it will not, I think, stand the test of critical examination. I urgently recommend in every case making the house-drain and soil pipe one, opening at one end into the sewer and at the other into the sky. I insist that it shall be free from leaks, with water and gas-tight joints. In a tube open at both ends there can be no pressure of gas or air to displace seals or force an outlet through lateral branches. With such a pipe I connect my branch wastes in the usual approved method, giving each fixture its own hub, and not making the water closet trap the medium of discharge for bath and basins. These branch wastes I trap, and, so far as possible, I give each trap a vent,

chiefly with a view to promoting a free circulation of air through the whole waste pipe system.

GAS FIXTURE COMBINATION.

The Ledger of Philadelphia says: A movement is in progress for a consolidation of the interests of the leading American manufacturers of gas and electric light fixtures. The value of the total output of fixtures in the United States is about \$6,000,000, and the substantial assets of the firms and companies in the movement, without reckoning the value of good will, patterns, etc., are estimated at over \$5,000,000.

CRAIG, M'ARTHUR & CO.'S STOCK SOLD.

The stock of the insolvent estate of Craig, McArthur & Co., dealers in plumbers' supplies, Toronto, was sold by Suckling & Co., auctioneers, on Thursday. The goods sold were invoiced at \$6,000, of which \$4,000 were in stock and \$2,000 in bond. They were sold at 71c. on the dollar to Nicholas Garland. A good representation of the trade was present at the sale.

PLUMBING AND HEATING NOTES.

The assets of the estate of John Monohan, plumber, etc., Toronto, have been sold.

Joseph Jean, jr., and Philemon Page, have registered as plumbers in Montreal.

Permits have been issued in Toronto to George Howard for two brick stores at 1430 and 1430½ Queen street west, to cost \$1,500, and to C. A. Dimick for three two-storey dwellings on Madison avenue, near Bernard avenue, to cost \$8,000.

A gas explosion, in which seven persons had a miraculous escape from death, and five rooms had their floors and ceilings reduced to kindling wood, occurred at the Progress House, Berlin, Ont., the other night. Fire followed, but it was subdued without doing further damage. The scene of the explosion was the kitchen, which is on the second storey. The explosion was caused by a match in the hands of a plumber, who was searching for a defective gas pipe.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

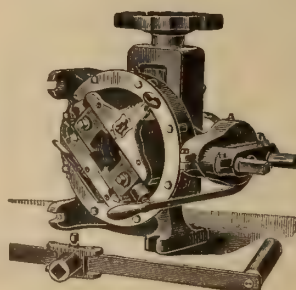
Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.



New No. 0 Threading Machine.

*Extracts from paper read before the New Jersey Sanitary Association.

The tender of Longard Bros. for plumbing in connection with the Burns & Murray building, Halifax, has been accepted.

MARITIME NAIL COMPANY, Limited
ST. JOHN, N. B.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

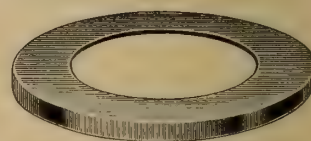
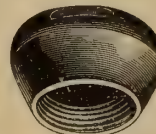
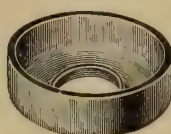


Write for Latest Catalogues and Samples to

THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.



Stove Trimmings

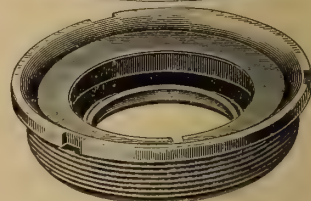
In BRASS, NICKEL
and BRONZE.

All orders promptly and carefully
executed.

**Sheet Steel
Bicycle Fittings**

OF ALL
DESCRIPTIONS.

Estimates furnished from Blue Prints,
Drawings or Samples.



CATALOGUES FURNISHED ON APPLICATION.

The H. A. MATTHEWS MFG. CO., SEYMOUR, CONN.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, 1½ to 2½ inches. Price \$1.25 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, = Saint John, N. B., Canada.

THE ...
UNRIVALLED



**Brilliant
St. Antoine**

METAL
POLISH.

Free from acids.

Most useful for household articles, musical instruments,
jewellery, harness, etc. Highly recommended by fire
brigades, railway and steamship companies.

SEND FOR QUOTATIONS.

Also manufacturers of Mucilage, Ink and the famous
St. Antoine Cement for glass and china ware.

THE VICTORIA CHEMICAL WORKS CO.
MONTREAL



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful
operation machines from 5 to 200 lights.

Simplicity and safety are the leading features.
Being deeply water sealed it cannot leak. It makes
the gas cool, washes it twice, and thus makes only pure
gas Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS.

Send for Booklet.

NOW MANUFACTURING IN CANADA

SISSONS BROS. & CO., Limited, of Montreal, and Hull, England, manufacturers of varnishes, paints, colors, etc., have established themselves in Canada and have undertaken to give the Canadian dealer English paints at home prices.

Their very strong position as miners of raw material, manufacturers of base colors and of the well-known "Griffin and Shield" brand of paints, varnishes, colors, etc., coupled with the advantage of being on the spot and in touch with the greatest markets of the world, will greatly strengthen their position in Canada.

Under the management of Mr. C. R. McDowell, with offices and warehouse at 821 Craig street and works at Canal Bank, Montreal, they are completing arrangements to grind and manufacture a full line of paints, colors, enamels, stains, etc.

All paints will be made from the best English dry colors, and being ground in Canada greatly facilitates the handling of their Canadian business.

One of their specialties is their "Griffin and Shield" brand washable water paint, invented by Mr. Allan Hall, a director of the company. Water alone is required to thin this paint, and its application is so simple that an unskilled person can apply it without difficulty. For both inside and outside work it is a decided success. It is made in over 60 different tints.

This old-established firm is not one to be satisfied with the reputation it has gained in the past, without due care to adapt itself to the requirements of the times. The catalogues for the Canadian trade will soon be out. In the meantime, any information regarding these lines can be obtained from the Montreal branch. The trade is requested to await samples and prices before placing spring orders.

ACID-PROOF PAINTS.

According to a well-known chemist, the following paints will resist the action of the acids named, and are, therefore, suitable for applying to the surfaces of vessels, etc., exposed thereto: Sulphuric acid and nitric acid are inert towards 30 deg. B. potash waterglass mixed with a sufficient proportion of pumice dust. An equally good paint against sulphuric acid and muriatic acid is composed of asbestos dust, two parts; sulphate of baryta, one part; 50 deg. B. sodium waterglass, two parts (for weak acids the waterglass need only be 13 deg. B.). Hot nitric acid will not attack a paint made from sodium waterglass, two parts; sand, three parts; asbestos, one part. Potash waterglass may be used instead of the sodium compound, but is dearer, and the paint dries with great rapidity.

55 Years' Experience.

WARNOCK'S Axes and Edge Tools have been on the Canadian market since 1844. They are unequalled in **QUALITY AND FINISH**. Always specify Warnock's Tools when buying.

James Warnock & Co., Galt, Ont.

Spring Business

ought to open with a snap this year and open early too—progressive dealers are ordering from us now. Brushes, Brooms, Woodenware—what do you lack to make your stock complete? Our catalogue will help you—will you just look it through?

It tells all about Boeckhs' Brushes.

And don't forget our forty years' experience in the business—it counts, when you consider quality; and, too, it makes fair prices possible. We buy our raw materials in large quantities and we keep in touch with the markets of the world. Send for our Illustrated Catalogue—it's free.

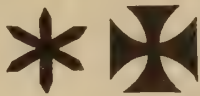
Boeckh Bros. & Company, Mfrs.
Toronto, Ont.

Coppered Steel Spring Wire

Standard for furniture springs, high-grade, fully guaranteed for special purposes. . . .

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 24½
Straits 0 24

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 00
I.X. 6 25
I.X.X. 7 50
J. R. & Co.—
I.C. 4 75 5 00
I.X. 6 00 6 25
I.X.X. 7 25 7 50
Famous—
I.C. 5 00
I.X. 6 25
I.X.X. 7 50
Raven & Vulture Grades—
I.C., usual sizes 3 50
I.X. 4 25
I.X.X. 5 00
I.X.X.X. 5 75
D.C., 12½x17 3 00
D.X. 3 75
D.X.X. 5 75
NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—
I.C., usual sizes 3 00
I.C., special sizes, base. 3 15
20x28 6 00 6 25
Charcoal Plates—Terne.
Dean or J. G. Grade—
I.C., 20x28, 112 sheets 6 00
I.X. 7 50
I.C., Orion 6 00
I.X., Orion 7 25 7 50
Charcoal Tin Boiler Plates.
Cookley Grade—
X.X., 14x56, 50 sheet bxs }
14x60, " } 0 05½ 0 06
14x65, " }
Tinned Sheets.
72x30 up to 24 gauge. 0 05½ 0 06
26 " 0 06½ 0 06¾
28 " 0 07½ 0 07¾

Iron and Steel.

Common Bar, per 100 lbs 1 45
" from factory 1 35
Refined " 1 60
Horse Shoe " 1 65 1 70
Band " 1 65 1 75
Hoop " 2 00
Swedish " 4 00 4 25
Sleigh Shoe Steel " base 1 75
Tire Steel 1 75
Machinery 1 85 1 95
Cast Steel, per lb 0 10 0 14
Thos. Firth & Sons' Cast Steel
Russian Sheet, per lb 0 10½ 0 11
Tank Plates, 15 and thicker. 2 00 2 25
Boiler Rivets 4 50 5 00

Boiler Tubes.

1½-inch 0 06½
2 " 0 07½
2½ " 0 09½
3 " 0 11

Steel Boiler Plate.

3-16 inch 2 00
" 1 90

¾ inch and thicker 1 75

Sheet Iron.

16 gauge and heavier 2 50 2 70
18 to 20 gauge 2 25 2 50
22 to 24 " 2 31 2 40
26 " 2 40 2 50
28 " 2 50 2 60

Canada Plates.

All dull, 52 sheets 2 25
Half polished 2 35
All bright 2 85 3 00

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,
\$1.31 to \$3.40; ½ inch, \$2.31 to \$2.43; ¾ inch,
\$2.80 to \$2.85; 1 inch, \$1.90 to \$3.97; 1½ inch,
\$5.15 to \$5.20; 2 inch, \$6.75; 2½ inch, \$9.10.
Galvanized ½ inch, \$3.95; ¾ inch, \$4.80;
1 inch, \$1.75; 1½ inch, \$9.15; 2 inch, \$11.75;
2½ inch, \$6.90. Cast soil, 2, 3, 4 and 5 inch
60, 10 and 5 p. c.

Galvanized Iron.

16 gauge 3 15 3 75
18 to 24 gauge 3 25 3 30 4 00
26 " 3 50 3 55 4 25
28 " 3 75 3 90 4 50

Chain.

Proof Coil, 3-16 in., per 100 lbs 6 25
" ¼ " " 4 65
" 5-16 " " 3 75
" ¾ " " 3 25
" 1 " " 2 85
" 1½ " " 2 75
" 2 " " 2 75
" 3 " " 2 63
Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per
doz. yards 0 13 0 50
Jack chain, double, per doz.
yards 0 15
Jack chain, brass, single, per
doz. yards 20 10

Copper.

English B. S., ton lots 0 15 0 15½
Lake Superior
Bolt or Bar.
Cut lengths, round, ½ to ¾ in. 0 20 0 22
" round and square
1 to 2 inches 0 19½ 0 20
NOTE.—Complete, lengths about 15 feet
from 18½ to 19 cents a pound.

Sheet.

Untinned, 14 oz., and light, 16
oz., 14x48 and 14x60 0 18 0 18½
Untinned, 14 oz., and light, 16
oz., irregular sizes 0 18 0 18½
NOTE.—Extra for tinning, 2 cents per
pound, and tinning and half planishing 3
cents per pound.
Planished and tinned, 14x48
and 14x60 0 25 0 27

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb. 0 19
" 35 to 45 " 0 18½
" 50-lb. and above, " 0 18

Boiler and T. K. Pitts.

Plain Tinned, per lb 0 21
Spun, per lb 0 25

Wire.

Copper and Brass Wire, net list.

Brass.

Roll and Sheet, 14 to 30 gauge, 25 to 27½
p. off list.
Sheet, hard-rolled, 2x4 18 0 20
Tubing, base, per lb 0 21 0 22

Foreign, per lb 0 05½ 0 06
Domestic " 0 04½ 0 05

Zinc Sheet.

5 cwt. casks 0 07½
Part casks 0 07½

Lead.

Imported Pig, per lb 4 00
Domestic, per lb 0 03½
Bar, 1 lb 0 05
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05½
by roll 0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra.
Pipe, by the roll, usual weights per yard, lists
6 7 cents per lb. and 25 per cent. discount.
NOTE.—Cut lengths, net price, waste pipe.
in 8-ft. lengths, lists at 7½ cents.

Soldier.

Bar half-and-half 0 15½ 0 16½
Refined 0 14½ 0 15½
Wiping 0 13½ 0 14½
NOTE.—Prices of this graded according to
quantity. The prices of other qualities or
soldier in the market indicated by private
brands vary according to composition.

Antimony.

Cookson's, per lb 0 10 0 11
Other makes, per lb 0 09 0 09½

White Lead.

Pure, Assoc. guarantee, ground in oil,
25 lb. irons 5 75
No. 1 do 5 37½
No. 2 do 5 00
No. 3 do 4 62½
No. 4 do 4 25
Robertson's Chemically Pure 5 75
Munro's Select Flake White 6 00
Elephant and Decorators' Pure 5 75
Brandram's B. B. Genuine 7 00
James genuine 6 95
" No. 1 6 45

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04½
Pure, kegs 0 04½
No. 1, casks 0 04½
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon. 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 10
Robertson's Pure 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 07
Chrome Yellow 0 11
Golden Ochre 0 06
French 0 05
Marine Black 0 09
" Green 0 09
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per
cwt 1 35 1 40
Yellow Ochre (J.F.L.S.), bbls.
per cwt 2 75
Yellow Ochre (Royal), per
cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80
English Oxides, per cwt. 3 00 3 25
American Oxides, per cwt. 1 75 1 90
Canadian Oxides, per cwt. 1 75 1 90

Burnt Sienna, pure, per lb. 0 10
" Umber, " 0 10
do. aw 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 08½
Ultra marine Blue in 28-lb.
boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb. 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

250 lb. casks 0 11½
50 lb. drums 0 12
1 lb. packages 0 13
½ lb. " 0 14½
1-lb. tins 0 13½

Sulphate of Copper.

Casks, for spraying, per lb. 0 04½
100-lb. lots, do. per lb. 0 05

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.
extra Hamilton, London Guelph. For quantities
less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.). per gal
Carriage, No. 1 1 50
Extra do. 2 50
Body Varnish 4 50
Furniture Varnish 0 55
Extra do. 0 90
Demar Varnish 1 60
Hard Oil Finish 1 40
Orange Shellac Varnish 2 00
White Shellac 2 20
Rubbing Varnish 2 50
Polishing Varnish 2 50

Linseed Oil.

Raw, per gal. net 0 49
Boiled, per gal. net 0 52
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 65
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10½
Small lots 0 11½

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20
" Neatsfoot 90

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medal 0 12
Cabinet, sheet 0 11
White, extra 0 16 0 18
Gelatine 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 09
Al clear 0 20
Liquid Glue—F. LePage's, discount 20 to 25
per cent off list; Munn's, discount 25 to
30 per cent. off list.

HARDWARE.

Ammunition.

Cartridges.
P. B. Caps, Dom. 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p. c. Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p. Amer.

Central Fire Cartridges, pistol sizes, Dom 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom. 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
 Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Prime, Dom., 30 per cent.

Wads.
 Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 25
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Per lb. 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 99½ 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

Awls.
 Sewing, per gross, 0 65 1 59
 Pegging, 0 65 1 25
 Brad, 0 85 1 60
 " handled, per gross, 3 60 30
 Saddler's, per gross, 0 45 1 60

Awl Hafts.
 Patent Peg, per gross, 7 25 8
 Sewing, per gross, 8

Awl and Tool Sets.
 Millar's Falls, per doz., 2 80 3 30

AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Axle Grease.
 Per gross, 6 00 13 00

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list. Boxing extra.

Anti-Friction Metal.
 "Tandem" A, per lb., 0 19
 " B, 0 16
 " C, 0 10½
 " Monarch" 1, 0 21
 " 2, 0 15
 " 3, 0 10
 " Canadian", 0 08½
 Magnolia Anti-Friction Metal, per lb., 0 25
 No Name Metal, 0 15
 Mystic Metal, 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, 5 50 8 00
 "Peterboro", discount 50 per cent.

Cow.
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.

Farm.
 American, each, 1 25 3 00
 American, per, 0 35 0 40

Bellows.
 Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bench Stops.
 Per doz, 5 00 6 00

Bits.
 Anger.
 Gilmour's, discount 65 and 5 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.
 Ca.

Gilmour's, 47½ to 50 per cent.

Expansive.
 Clark's 40 per cent.
 Excelsior, 10 per cent.
 Gimlet.
 Clark's, per doz, 0 65 0 90
 Diamond, Shell, per doz, 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Annex, per doz, 1 25 1 75
 Mascott, 1 35 1 85
 Erminie, 1 00 0 90

Blind and Bed Staples.
 All sizes, per lb, 7½ 0 12

Bolts.
 Carriage, dis., 60 and 10 to 70 p.c.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Elevator, dis., 35 to 40 per cent.
 Machine, dis., 70 p.c.
 Coach Screws, dis., 70 and 10 p.c.
 Plough bolts, 60 p.c.

Boring Machines.
 Complete, with augers, each, 5 00 7 50

Braces.
 Barbet's, 6 00 7 75
 Barber's Ratchet, 10 00 11 00
 Farmers, 2 00 2 75
 Millar's Falls, 15 50 29 00

Brackets.
 Shelf.
 Japanned Canadian, per doz, 0 50 3 40
 pairs, 0 85 3 20
 Berlin Bronze Canadian, 0 85 3 20

Broilers.
 Light, dis., 65 to 67½ per cent.
 Vegetable, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis., 37½ per cent.
 Henis, No. 8, 6 00
 Henis, No. 9, 7 00
 Queen City, 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Butts.
 Brass.
 Wrought Brass, dis., 17½ p.c. revised list.

Cast Iron.
 Loose Pin, dis. 70 per cent.

Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Can Openers.
 Acme, per gross, 9 00 10 00
 Jardine Scissors, per doz, 3 75 4 50

Card.
 Horse, per doz., 0 60 1 00

Carpet Stretchers.
 American, per doz, 1 00 1 50
 Bullards, per doz, 6 50

Carpet Sweepers.
 Bisell, per doz, 22 50
 World, 21 75
 Daisy, 24 00
 Star, 18 00
 Crown Jewel, per doz, 29 00
 Grand Rapids, 24 00 33 00

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross, 8 50 50

Cement.
 Canadian, Portland, 2 50
 English, 2 85
 Belgium, 2 75
 Canadian hydraulic, 1 20
 Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt, 0 60 0 65
 Red, 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 American, dis. 75 per cent.
 Canadian, dis. 40 and 5 per cent.
 Tanged firmer, per doz, 0 85 4 00

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.75—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75
 Montreal: No. 0, \$3.60—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clamps.
 Tudd's, dis. 20 per cent.
 Stearn's, per doz, 3 00 10 00

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain, 3 25
 " embossed, 3 50

Coffee Mills.
 Box, 3 60 13 00
 Side, 3 60 4 00
 Enterprise, No. 0, 1 35
 " No. 2, 70

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 25 per cent.

Door Springs.
 Torrey's Rod, per doz., (15 p.c.), 2 00
 Coil, per doz, 0 88 1 60
 English per doz, 2 00 4 00

Draw Knives.
 American, dis. 70 and 10 per cent.
 Canadian, dis. 25, 50 and 10 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz., 16 00 51 50
 P. S. & W., dis. 40 per cent.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz, 85 1 70

FAWCETS.
 Cork Lined, per doz., 0 30 0 35
 Wine, per doz, 1 30 3 25
 Star, 2 80 3 90
 Fenn's Corkstop, No. 2, per dozen, 1 70
 Petroleum, per doz., 4 50 6 50

FILES.
 Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Poote, 60 and 10 per cent. to 60, 10, 10.

FLUTING MACHINES.
 Each, 0 60 2 00

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, 10 and 5 p.c. revised list.

FREEZERS.
 Ice Cream.
 Gem from \$1.25 to \$7 net.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's Nos. 26 to 33, each, 1 65 2 40

GLASS.
 Window.
 Box Price.

Star.
 Under 25, 1 80 3 50 5 50
 26 to 40, 1 95 3 80 6 00
 41 to 50, 4 20 6 75
 51 to 60, 4 80 8 00
 61 to 70, 4 80 8 75
 71 to 80, 5 20 9 75
 81 to 85, 5 80 10 75
 86 to 90, 6 80 13 00
 91 to 95, 14 75
 96 to 100, 16 75
 101 to 105, 18 75
 106 to 110, 22 75

GLUE POTS.
 Tinned, each, 0 30
 Enamelled each, 0 55

GRINDSTONE FIXTURES.
 Per doz., 3 60 4 00

HALTERS.
 Rope, ¾ per gross, 8 25 8 5
 " ½, 9 25 9 50
 " ¼, 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 00
 " 1½ in., 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Knives.
 Magnetic per doz., 1 10 1 20
 Sledge, 0 07½ 0 08½
 Canadian, per lb, 0 07½ 0 08½
 Ball Pean.
 English and Can., per lb., 0 22 25

HANDLES.

Axe, per doz., net, 1 50 2 60
 Store door, per doz, 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Chisel.
 Firmer, per gross, 3 00 4 50
 Socket Firmer, per gross, 3 25 8 00
 Socket Framing, per gross, 3 75 5 00

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz., 1 00 25
 Plane.

Hammer and Hatchet.
 Canadian, 45 per cent.

Cross-Cut Saw.
 Canadian, per pair, 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair, 0 40 0 50
 Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p.c.
 Light T and strap, 70 and 10 p.c.
 Heavy, per lb, 0 03¾ 0 04¾
 Screw hook and hinge—
 6 to 12 in., per 100 lbs., 3 15
 14 in. up, per 100 lbs., 2 35
 Per doz. set
 Screw, Eureka, 1 13 1 80
 Gate, Clark's, 1 50 2 20
 " Shepard's, dis. 50 to 60 per cent.

Per gro. pair
 Spring, 9 50
 " Shepard's Samson, 1 20

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.
 Cast Iron.
 Bird Cage, per doz, 0 50 1 10
 Clothes Line, per doz, 0 27 0 63
 Harness, per doz, 0 72 0 88
 Hat and Coat, per gross, 1 00 3 00
 Chandelier, per doz, 0 50 1 00

Wrought Iron.
 Wrought Hooks and Staples, Can., dis. 47½ per cent.

Wire.
 Hat and coat, dis. 60 to 60 and 10 p.c.
 Belt, per 1,000, 0 60 0 70
 Screw, bright, dis. 65 and 10 per cent.

HORSE NAILS.
 "C" brand, 50 p.c. dis.
 "M" brand 50 p.c.
 "P. B.", dis. 50 p.c.
 Acadian, 50 and 20 p.c., countersunk head

HORSE SHOES.
 F.O.B. Montreal F.O.B. Toronto
 Iron Shoes, 3 15 3 25
 Light, medium, and heavy, 3 15 3 25
 Snow shoes, 3 40 3 50
 Steel Shoes.

Light, all sizes, 3 35 3 45
Extra light, 4 50 4 60
Toe weight (steel), 5 50 5 60
 *Also Hamilton, London, Guelph, St. John. Halifax.

ICE PICKS.
 Star, per doz., 3 00 3 25

KETTLES.
 Brass spun, 7½ p.c. dis. off new list.
 Copper, per lb., 0 30 35
 American, 60 and 10 to 65 and 5 p.c.

KEYS.
 Lock, Can., dis. 50 p.c.
 Cabinet, trunk, and padlock, Am. per gross, 1 60

KNOBS.
 Door, japanned and N.P., per doz., 0 90
 Bronze, Berlin, per doz., 2 75 3 25
 Bronze Genuine, 6 00 9 00
 Shutter, porcelain, F. & L. screw per gross, 1 30 4 00

KNIVES.
 Claus, bread, cake, and paring knives, \$7.00 doz. sets net, to 10 per cent.
 Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.
 Hay knives, spear point, L or T handle, 60 and 5 per cent.
 Lightning, per doz., 6 50 8 40
 Heath's, \$7.75 net.

LADLES.
 Melting, per doz., 1 70 4 50

LEMON SQUEEZERS.
 Porcelain lined, per doz., 2 20 5 60
 Galvanized, 1 87 3 85
 King, wood, 2 75 2 90

King, glass,	4 00	4 50
All glass	1 20	1 30
LINES.		
Fish, per gross	1 05	2 50
Chalk	1 90	7 40

LOCKS.		
Canadian, dis. 50 p.c.		
Russell & Erwin, per oz....	1 75	7 50
Cabinet,		
Eagle, dis. 30 p.c.		
Padlock.		
English and Am., per doz....	50	6 00
Scandinavian,	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.		
Iron and Brass.		
Flat head, discount 25 p.c.		
Round head, discount 2½ p.c.		

MALLETS.		
Tinmiths', per doz.....	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitæ, per doz.....	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.		
Canadian, per doz.....	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.		
American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MINCING KNIVES.		
American, per doz.....	0 42	2 35

MOLASSES GATES.		
Stebbin's Patent, dis. per cent., 77½ per cent.		

QUOTATIONS ARE:		
2½ and 3½	\$2 75	\$2 90
3d	2 40	2 55
4 and 5d	2 15	2 30
6 and 7d	2 05	2 20
8 and 9d	1 90	2 05
10 and 12d	1 85	2 00
16 and 20d	1 85	1 95
3½, 4½ and 6½ (base)...	1 75	1 90
Steel C t Nails 10c. extra.		
Brads and finishing nails, special sizes, 80 p.c. from new list.		

NAIL PULLERS.		
German and American.....	1 85	3 50

NAIL SETS.		
Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.		
Poultry, 67½ per cent. for imported,		
55 per cent. for McMillen's.		

OIL.		
Canada refined oil (Toronto)...	0 14	
Carolina safety "	0 16½	
American w. w. "	0 17½	
Pratt's Astral	0 17	

OILERS.		
McClary's Model galvan. oil		
can, with pump, 5 gal.,		
per doz.....	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.....	1 25	3 50
Brass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.		
Galvanized, per doz.....	1 85	3 00

PENCILS.		
Dixon's, per gross.....	1 00	4 25
Carpenter	2 25	3 60

PICKS.		
Per doz	6 00	9 00

PICTURE NAILS.		
Porcelain head, per gross....	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY		
Forbes Patent Die Stocks.—Curtis & Curtis,		
Mfrs., Bridgeport, Conn.		
No. 30 H and L Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 33 H and L Machine, range 1½		
to 4	100 00	
No. 56 H and L Machine, range 2½		
to 6	175 00	

PLANES.		
Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wool, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 37½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.		
English, per doz.....	2 00	5

PLIERS AND NIPPERS.		
Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz....	5 00	9 00
German, per doz.....	0 60	2 60

PLUMBS AND LEVELS.		
S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		

POPPERS.		
Corn, square, per doz.....	1 35	2 00

PRUNING SHEARS.		
Per doz.....	4 00	5 50

PULLEYS.		
Hothouse, per doz.....	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.....	0 35	2 50

PUMPS.		
Canadian cistern.....	1 40	2 25
Canadian pitcher spout.....	1 15	2 00

PUNCHES.		
Saddlers', per doz.....	1 00	1 85
Conductors',	9 00	15 00
Tinners' solid, per set.....	0 00	0 72
" hollow, per inch.....	0 00	1 00

RAIL.		
Barn door, per foot.....	0 02½	0 02½
Sliding door,	0 03½	0 03½
Lanes,	0 02½	

RAKES.		
Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.		
New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 6½ and 10 to 70 p.c.		
Toronto File Co.'s rasps, 6½ and 10 to 70 p.c.		
Heller's Horse rasps, 5½ to 50 and 5 p.c.		

RAZORS.		
Geo. Butler & Co.'s, per doz....	8 00	18 00
Boker's,	7 50	11 00
Wade & Butcher's,	3 60	10
Arbenz's,	9 00	18
Theile & Quack's	7 00	12

RAZOR STROPS.		
Currier's, per doz.....	1 25	3 60

RIVETS AND BURRS.		
Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 80 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and		
p.c.		
Copper Rivets & Burrs, 45 p.c. dis.		
cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.		
Canadian, dis. 35 to 37½ per cent.		

ROPE, ETC.		
7-16 in. and larger, per lb.	Sisal.	Manilla
¾ in.	9½	10
½ and 5-16 in.	10½	11
Cotton	13	
Russia Deep Sea	14½	
Jute	6¾	7½
Lath Yarn	8¾	
New Zealand Rope	9½	

RULES.		
Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.		
Mrs. Potts, per set.....	0 62½	1 00
" N.P., per set.....		90

SAD HEATERS.		
Dome, Shepard's, per doz.....	4 75	5 00

SAND AND EMERY PAPER.		
Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.....		

SASH CORD.		
Per lb.....	0 20	0 50

SASH LOCKS.		
Triumph and Morris, dis. 37½, 40 percent.		
Kempshell's, dis. 40, 62½ per cent.		
anadian, dis. 45, 50 per cent.		

SASH WEIGHTS.		
Sectional, per 100 lbs.....	1 40	1 75
Solid,		1 25

SAWS.		
Crosscut, McMillan & Haynes,		
per dozen	0 40	0 70
"Empire," McMillan & Haynes,		
per ft.....		0 70
Hand, Diaston's, dis. 12½ to 15 p.c.		
S. & D., 40 to 40 and 10 per cent.		
Crosscut, Diaston's, per ft....	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.....	0 75	2 75
" frame only		0 75

SAW SETS.		
"Lincoln," McMillan &		
Haynes, per doz.....	6 00	7 50
Whiting	5 63	7 00

SCALES.		
Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 80 per cent.		
Fairbanks Standard, 45 p.c.		
Dominion, 61 p.c.		
Richelieu, 60 p.c.		
Chatillon Spring Balances 25 p.c.		

SCRAPERS.		
Box, per doz.....	2 10	4 50
Boof,	0 40	3 50

SCREENS.		
Door, patent, per doz.....		
Window, per doz		

SCREW DRIVERS.		
Sargent's, per doz.....	65	1 00

SCREWS.		
Wood, F. H., iron, and steel, dis. 85 & 5 p.c.		
Wood R. H.,	dis. 77½ and 5 p.c.	
F. H., brass, dis. 80 and 5 p.c.		
Wood, R. H.,	dis. 72½ and 5 p.c.	
Drive Screws, 87½ per cent.		
Bench, wood, per doz.....	3 25	4 00
iron,	4 25	5 75

SCYTHES.		
Discount, per doz. net.....	4 50	6 00

SCYTHE SNATHS.		
Canadian, dis. 50 p.c.		

SHEARS.		
B. & W., japanned, dis. 75 p.c.		
B. & W., N.P., dis. 65 p.c.		
Seymour's, dis. 60 p.c.		
Etna, dis. 75 to 75 and 10 p.c.		
Heinisch, dis. 60 p.c.		
N.P., dis. 70 p.c.		
Clausen, full nickel, 60 p.c.		
japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHEAVES.		
Sliding door, per set.....	0 77	1 40

SHOVELS AND SPADES.		
Canadian, dis. 40 and 10 to 45 and 2½ p.c.		

SIEVES.		
Wood rim, black, per doz.....	1 05	1 10
" tinned,	1 25	1 35
Tin rim, per doz.....	2 30	2 45
" black.....	1 85	2 25

SNAPS.		
Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews	4 50	11 50

SOLDERING IRONS.		
Per lb	0 25	

WROUGHT SPIKES.		
Discount, 35 to 40 per cent.		

SPOKE SHAVES.		
Wood, English	1 80	5 00
ron, American.....	1 35	2 35

SPOONS AND FORKS.		
Tea spoons, per gross	7 50	12 00
Dessert,	21 00	00 00
Table,	30 00	30 00
Dessert Forks,	24 00	00 00
Medium "	27 00	00 00
Table "	36 00	00 00

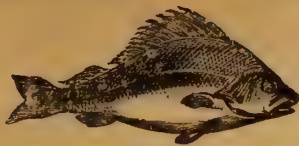
SQUARES.		
Iron, per doz.....	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.		
Galvanized	2 25	
Bright.....	2 00	

STEP LADDERS.		
BOECKH BROS. & COMPANY.		
Best grade, from 3 to 10-ft. long, per foot, 6c		
2nd grade, 8 to 10-ft., per foot, 10c.		

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Fishing Tackle.



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Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

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FINE COACH VARNISHES.**

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E. F. WALTER & CO.
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PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting, double action, small frame. Weighs 12 oz. Rebounding lock. 32 caliber. 5 shot.

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The most perfect small pistol made.

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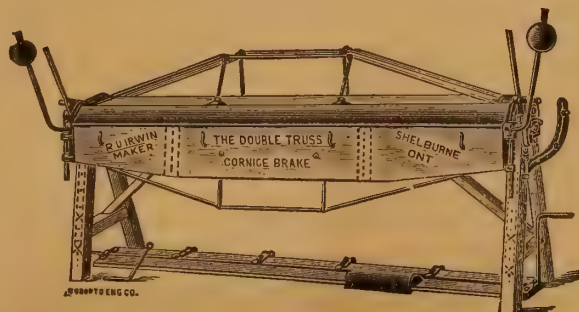


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Manufacturers of
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Forehand Guns

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This eight-foot Brake bends 22-gauge iron and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra, if required.

Send for circulars and testimonials to

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A. M. Grimes, M.A., Principal.

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Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

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THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS
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NO SCREWS
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Est. 1863

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Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals



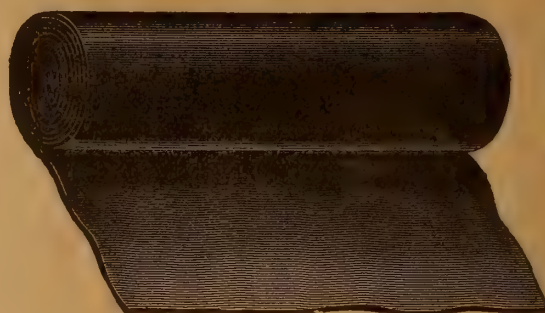
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BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

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OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

THE BEST EVERY DAY IN THE YEAR

That's the kind of Paint you should always handle. It is certainly the kind your customers want and are bound to have. There is only one way of supplying this demand though, and that is by always keeping well supplied with Robertson's Ready-Mixed. That's what everyone is after.

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Telephones 819, 1511 and 1292.

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Sterling Value
Langwell's Babbitt
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CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JANUARY 28, 1899.

NO. 4



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



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LONDON OFFICE—49 Queen Victoria St.
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General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267 New York
West St.,

Soft and Workable.

Not too soft to hold its shape,
but soft enough to stand any
test you can give it. If you
want a still softer iron, import
our "Special Soft"—same price.



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BRISTOL and MONTREAL.

Canada's Largest Radiator Manufacturers

THE PRIDE OF POSSESSION
BRINGS CONTENTMENT.

Use only —

Safford Radiators

...and peace will be yours.

No { BOLTS
PACKING
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MADE ONLY BY

The Dominion Radiator Company

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Limited

Montreal, Quebec, St. John, Winnipeg, Vancouver.



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Favorite

RICE LEWIS & SON

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Hardware



MANTELS
GRATES
TILES

Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

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Bath=
Room
Help



Do you want to know how to use a small amount of hot water and yet keep it hot in the Bath Tub—how to save money and yet get an absolutely sanitary and very handsome Bath Tub—how to buy a Bath Tub that you can't wear out and that won't chip or crack—how to get a Bath Tub of the highest quality that is all ready to set up without further expense to you?

Then send for our illustrated booklets that tell all about that "Bath-Room Help"

The price for it complete is but \$17.

**The
"Duplex"
Bath**

The Toronto Steel-Clad Bath and Metal Co. Limited,
125-127 Queen St. East, Toronto

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN
Toronto, RICE LEWIS & SON
Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIPPERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

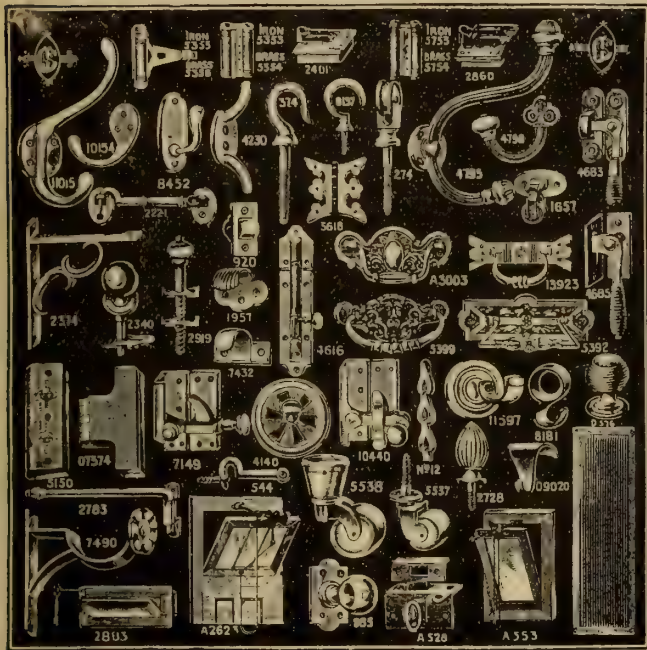
N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

James Cartland & Son

Manufacturers of every description of
CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
BIRMINGHAM, ENGLAND.



London Showrooms: 57 Holborn Viaduct, E.C.

Our Phoenix Red Sheet Packing

is not affected by oils, ammonia, liquors, steam, heat, or alkalis. It conforms to rough surfaces. It makes a perfectly tight joint. It retains its elasticity under any condition.



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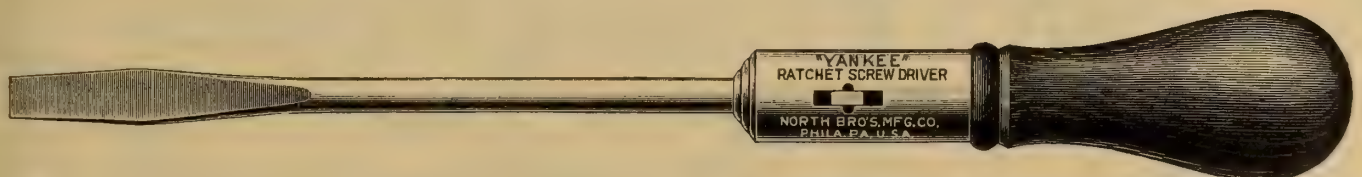
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THE CANADIAN RUBBER CO.
Manufacturers of MONTREAL descriptions of RUBBER GOODS of all
Factories Branches
Toronto and Winnipeg
CAPITAL \$1,500,000

OTHER TOOLS ARE VERY GOOD TOOLS, BUT "YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

Sold in Canada by

CAVERHILL, LEARMONT & CO.	-	-	-	MONTREAL
FROTHINGHAM & WORKMAN	-	-	-	"
ALEXANDER MACPHERSON & SONS	-	-	-	"
LEWIS BROS. & CO.	-	-	-	"
SEYBOLD, SONS & CO.	-	-	-	"
RICE LEWIS & SON, Limited	-	-	-	TORONTO
JOHN BOWMAN HARDWARE AND COAL CO.	-	-	-	LONDON
HOBBS HARDWARE CO.	-	-	-	"
WOOD, VALLANCE & CO.	-	-	-	HAMILTON

Descriptive Circulars will be mailed
on application.

North Bros. Mfg. Co.
Philadelphia, Pa., U.S.A.



EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

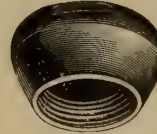
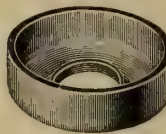
LONDON, E.C.



Stove Trimmings

In **BRASS, NICKEL**
and **BRONZE.**

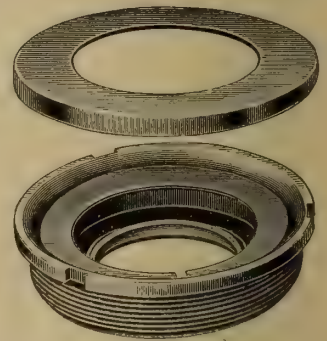
All orders promptly and carefully
executed.



Sheet Steel
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OF ALL
DESCRIPTIONS.

Estimates furnished from Blue Prints,
Drawings or Samples.



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The H. A. MATTHEWS MFG. CO., SEYMOUR, CONN.

The fibre is long
and strong

BROWN WRAPPING
HARDWARE MANILLA
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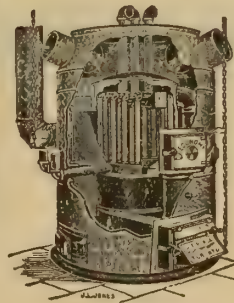
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That are necessary in a satisfactory
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The "Economy"
Hot Water and Warm Air
Combination Heater.

Their durability is assured beyond
any question. Then, too, they are
simple in construction and operation;
have enormous heating capacity, and
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criminating buyer, and among such
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Send for new Catalogue and
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WE GUARANTEE the workable quality of these sheets to be
equal to any on the market.

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to carry in stock unknown brands of stove polish that your customers know nothing about, brands they do not call for, the quality of which is inferior, gives them dissatisfaction, and the consequent sale of which brings discredit to your store? Your best judgment answers NO! Then sell

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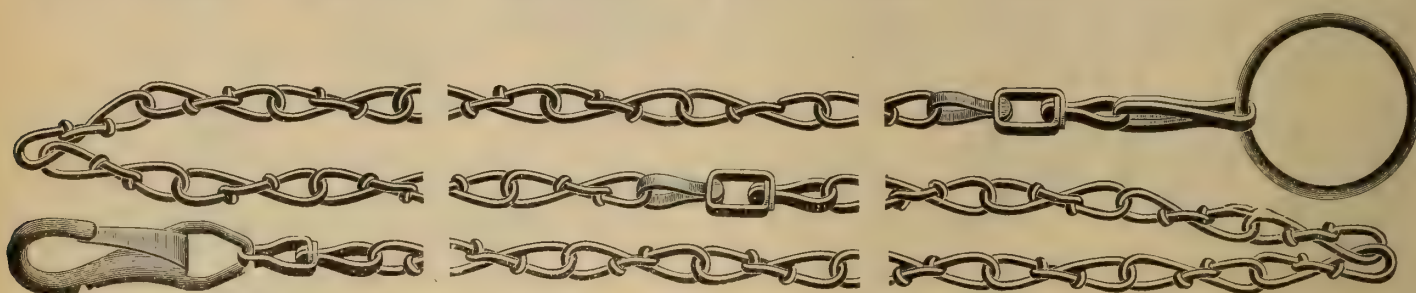
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STOVE POLISH
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Oneida Steel Wire Tie-Out.

For tethering cattle in fenceless pastures.
Made in all sizes. . .



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

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MILK CAN TRIMMINGS

Kemp's Roll-rim Milk Can Bottoms.

The Roll-rim has no sharp turns; therefore, the grain of the metal is not broken, and, having a broad wearing surface on the bottom, it cannot damage floors. It is the neatest and strongest in appearance, and is supplied with either Convex or Concave Bottoms.

Ample space is left between the bottom and the hoop for the insertion of the Body of the Can.

By examining the cut, anyone can readily see that this style of construction makes it the strongest Bottom ever produced.

They do not cost any more than inferior Bottoms.

If you want to keep ahead of your competitors, use Kemp's Roll-rim Milk Can Bottoms.

The Iron Clad Trimmings are made the same as the Broad Hoop, and differ from them only in having a narrower and thicker hoop, which does not require the Roll-rim, and, therefore, can be sold cheaper.

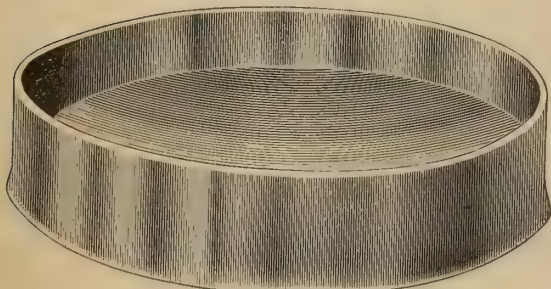


BROAD HOOP PATTERN.

FOR

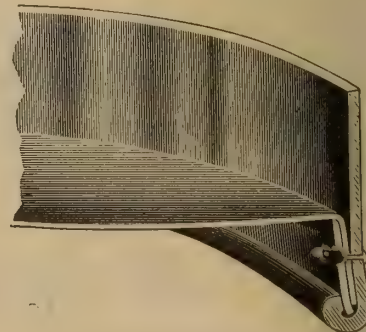
**Durability and Finish
Our Trimmings are
Unequalled.**

Tinned Iron cut to size in stock,
at right prices.



KEMP'S ROLL-RIM MILK CAN BOTTOM.

Manufactured by



SECTIONAL VIEW.

Kemp Manufacturing Co., Toronto, Can.



Vol. XI.

MONTREAL AND TORONTO, JANUARY 28, 1899.

No. 4

President, Treasurer,
JOHN BAYNE MacLEAN, HUGH C. MacLEAN
Montreal. Toronto.

THE MacLEAN PUBLISHING CO.
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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

EXCITEMENT IN TIN.

THE great excitement in the market for tin has again drawn attention to that metal, for it has risen over £11 the ton in London, and \$2.75 per 100 lb. in New York within the past six days.

When it is considered also that this is simply the continuation of an advance that began months ago, and has been steadily progressing ever since, it makes it difficult to believe that speculation alone is responsible for the present situation of the metal. Speculators could not engineer such a rise as there has been recorded in this metal, unless they had something substantial to work on.

The enormous decrease in the visible supply during the past year was the original

basis of the rise, and it has been largely responsible for the appreciation in value, though, of course, speculative tactics have accentuated the upward tendency.

Leading authorities assert that if the present rate of consumption is maintained, there must either be a substantial increase in production, or values will continue to stiffen as supplies become further depleted.

The present outlook does not furnish any indication of a decreased consumption, and, while the rise in values is likely to stimulate production, no definite information is available as yet from producing points, and it is estimated that it will be some months, at least, before any increase in production can have time to make itself felt on the general market standing of the metal.

All over the world stocks are down to a low point, and new arrivals pass into consumption almost as soon as received. Unquestionably, therefore, the statistical position is a strong one at the present time.

The following figures, compiled by W. I. Russell & Co., 66 Maiden Lane, New York, will be interesting in this connection :

Tin Shipments.	Dec. Tons.	Nov. Tons.
Straits to London	900	500
" " Continent	500	1,300
" " United States.....	1,450	1,800
Total from Straits.....	2,850	3,600
Australia to London.....	225	200
" " United States.....	Nil	Nil
Total from Australia	225	200
Consumption :		
London deliveries	1,090	1,040
Holland "	1,044	1,126
United States deliveries.....	1,900	2,700
Total.....	4,034	4,866
Spot stock, London.....	8,275	8,385
" " Holland	3,827	4,344
" " United States ..	535	635
Total stock	12,637	13,364

Afloat stock, London	1,412	1,826
" " Holland	1,592	1,283
" " United States ..	3,225	3,475

Total afloat

Total visible supply :

Dec. 31, '98	18,866 tons
Nov. 30, '98	19,948 "
Dec. 31, '97	29,855 "

Straits shipments first half January :

1898.

To London	925 tons.
" Continent	210 "
" United States.....	450 "

Same period 1898.....

Decrease

United States stock :

Dec. 31, 1897, spot.....	535 tons.
Arrived since.....	925 "

Consumption, Jan. 1 to 15.....

Jan. 15, spot stock

Jan. 15, afloat

United States visible supply, Jan. 15.....

He who is blown about by every wind, like the weathercock, makes no headway.

ADVANCE IN BROOMS.

Brooms have been advanced 15 to 20c. per dozen. This appreciation in value is due to the high prices ruling on broom corn. The Broom Manufacturers' Association in the United States advanced its prices 25c. per dozen some weeks ago.

The strength which has developed in the broom corn and broom market during the last month or so is due to two causes: (1) the crop of broom corn is about 50 per cent. short, and (2) what of the crop there is has been largely cornered by certain persons in the United States.

A business that will not stand judicious advertising is scarcely likely to survive when unsatisfactory breezes blow.

A MISREPRESENTATION OF THE DESIRE FOR RECIPROCITY.

THE particular policy of The New York Sun is to persistently misrepresent Canada and Canadian affairs. And its Montreal correspondent is a faithful servant.

In a recent issue this correspondent remarked that unless Sir Wilfrid Laurier "returns from Washington with some very liberal concessions to the hard-pressed farming industry of Canada, his race may be considered as good as run."

Anyone reading the above extract, who was not conversant with the facts, could come to no other conclusion than that the Dominion of Canada was so much in need of a reciprocity treaty that the failure of its Commissioners at Washington to successfully negotiate one would result in the overthrow of the present administration.

HARDWARE AND METAL has no brief to defend the Government. Neither has it any desire to do so. All this journal is concerned about is good government. And as long as it is good, this paper does not care whether it is administered by Liberals or Conservatives. But it is concerned when false statements regarding the country are published in such an influential journal as The New York Sun.

As we have, time and again, stated, a fair measure of reciprocity would be acceptable to a majority of the business men of this country.

But there is by no means any danger of a Government being hurled from power if its representatives return from Washington without a treaty in their pockets.

If there is any hurling from power done, it is more likely to be on account of a treaty than because not of one.

Any fair reciprocal arrangement whereby the Canadian farmers could get their produce, such as grain, potatoes, beans, eggs, apples, etc., into the United States under less onerous conditions than now obtain; lumbermen their coarse lumber, and miners their coal, would undoubtedly be acceptable.

Canada never enjoyed greater prosperity than it is at the moment enjoying. And never in the history of the country were the prospects so bright as they are now. There is no doubt about that.

Then, in spite of the adverse influences of the McKinley and Dingley tariffs, the foreign trade of the country is developing rapidly.

The year the McKinley tariff went into operation, 1890, the aggregate foreign trade of the Dominion was valued at \$209,514,735; last year it was about \$300,000,000, or an increase of over 43 per cent. in eight years, notwithstanding the marked depreciation in market values, to say nothing of the adverse United States tariff.

In 1890 the exports of the Dominion were \$96,749,149; in 1898 they were \$159,485,770, a gain of over 64½ per cent.

The following abstract statement of the exports to Great Britain and the United States, respectively, for the years 1890 and 1898 will be read with interest:

EXPORTS OF CANADIAN PRODUCTS TO GREAT BRITAIN AND THE UNITED STATES.

	1890.		1898.	
	G. B.	U. S.	G. B.	U. S.
The mine	\$ 630,815	\$ 3,963,257	\$ 212,301	\$13,838,833
Fisheries	2,207,442	2,850,528	4,822,688	2,979,314
Forest	14,098,865	10,247,610	15,638,045	9,348,877
Animals and their produce.....	18,578,722	5,966,474	39,634,662	4,278,214
Agricultural products....	3,661,826	7,519,253	37,688,272	1,136,475
Manufactures	1,816,147	2,667,232	4,900,484	2,781,885
Miscellaneous	5,257	73,773	6,443	51,562

It is true the above table shows a falling-off in the exports to the United States of all the things in which the farmer is directly interested, namely, in products of the forest, animals and their products, and agricultural products, but the decline, roughly speaking, \$8,000,000, is more than made up by an increase of about \$66,000,000 in the exports of the same products to Great Britain.

Then, as to the hard-pressed farming industry of Canada, The Sun's Montreal correspondent could scarcely have been seized of the facts or he never would have deigned to make such a statement.

During the period of depression the farming industry in Canada suffered as well as the farming industry in United States although not to the same extent. But to-day the farmers of the Dominion are anything but hard pressed. They are doing well, and the outlook was never probably as bright. They have better buildings, better and more valuable implements; more live stock; a much greater output of dairy products. Farm lands in the older Provinces have de-

preciated in value, but that is characteristic of farm lands the world over.

If Canada is to have a reciprocity treaty with the United States it must be on a fair business basis. On such a basis Canadians are quite prepared to enter into a treaty. On any other they are not. And as far as anxiety goes, this quality was never so little in evidence since reciprocity between the two countries came within the sphere of practical politics. In fact, no sign of it can be discovered in the press, in the speeches of politicians, or in the conversations at the clubs, in the hotels or in the streets.

COTTON CORDAGE ADVANCING.

The opinion has obtained that, owing to the large crop of cotton in the United States, lower prices would rule on cotton cordage.

However, it is the unexpected that often happens, and, lately, instead of going downward, the tendency of the market has been upward.

Owing to the high price of sisal and manila ropes, it appears a great deal of attention has been given to cotton cordage by buyers, with the result that the demand has been so heavy that prices in the United States have appreciated materially, being 1¼ to 1½ c. per lb. above the figures ruling a few weeks ago.

There has not yet been an advance upon the Canadian market, but, as cotton fabrics have been marked up in price, it is quite possible cotton rope may follow the example.

There are skeptics in religious matters, and it is only to be expected that there will be unbelievers in the efficacy of advertising.

PARIS GREEN DEARER.

Paris green is feeling the effect of the strong position of the copper market, and on Thursday prices were advanced 2c. per lb.

Prices to the retail trade, f.o.b. Toronto and Montreal, are now as follows: 250-lb. casks, 13½ c. per lb.; 50-lb. drums, 14 c.; 1-lb. packages, 15 c.; 1-lb. tins, 15½ c.; ½-lb. packages, 16½ c.

The advance came rather suddenly, and those dealers who placed orders before Thursday last have reason to congratulate themselves. Before the advance there was some free buying.

HIGHER PRICES ON WIRE AND NAILS.

A FURTHER appreciation in the value of wire and wire nails has taken place, during the past few days, upon the Canadian market.

Fencing wire is 10 to 15c. per 100 lb. dearer, and quotations f.o.b. Toronto are now as follows: Barb wire, 4-point, \$2.10 per 100 lb.; ditto, 2-point, \$2.15; safety barb wire, \$2.25; plain twist, \$2.15; No. 9 galvanized, \$1.85; No. 12 galvanized, \$1.95; No. 13 galvanized, \$2.05; staples, \$2.50 for galvanized and \$2.25 for bright. In Montreal, barb wire is this week quoted at \$2.15 per 100 lb.

Plain wire is also naturally affected, and the discount is 5 per cent. less than a week ago, now being, to the retailer, 30 per cent. f.o.b. Montreal, and 25 per cent. f.o.b. Hamilton.

In regard to wire nails, the feeling is decidedly feverish. The manufacturers are quoting, to jobbers, \$1.95 base, Toronto, for carloads, and \$2 for less quantities. Some of the jobbers have withdrawn their quotations, and, while at the time of writing nails can be obtained at \$2 per keg, Toronto, there is no knowing how long retailers will be able to buy at that figure.

Neither manufacturers nor jobbers are anxious for business at the figures now ruling, being confident that they will obtain higher prices shortly. For future delivery they will not quote at all.

Indeed, if the manufacturers were to base the price of nails upon to-day's cost of wire they would be quoting materially higher figures than they are at the moment.

Nails made at to-day's price of wire would cost the manufacturer about \$2.10 per keg, and it is only the fact that he had wire bought when the market was lower that enables him to fill orders at \$1.95 to \$2.

One feature of the situation is the fact that drawers of wire in Canada have not been able to get quotations for rods from the new steel and wire consolidation. Iron Age, of the 19th inst., stated that the consolidation was in complete control of the rod situation, and was not offering rods in the open market. It is worthy of note that the great concern is itself a purchaser of wire rods, as its capacity in this respect is not by any

means at present as large as its capacity in wire manufacture.

The price of wire rods f.o.b. Pittsburg is \$24, which is \$1 higher than on Jan. 11, \$2.25 higher than on Dec. 21, and \$1.50 higher than a year ago.

MR. KEMP ON TRANSPORTATION.

AT the annual meeting of the Toronto Board of Trade, on Thursday last, the burden of President Kemp's inaugural address was the transportation problem, especially in its relation to the "Queen City."

During the last few years Mr. Kemp has taken a lively interest in transportation matters, and since becoming an officer of the board, they have come within his special purview. The mass of information contained in his speech shows that he has not allowed to go unimproved his opportunities for collecting information in regard to what is not only a live and interesting question to the people of Toronto, but to the people of the greater part of Canada as well.

At present about five out of every six bushels of wheat exported from Canada go by way of Buffalo, and Mr. Kemp urged that the building of an air line railway from Lake Ontario to Georgian Bay would tend to divert a larger proportion to Canadian ports for shipment. "The route, if owned by the Government, could be considered as part of our canal system," he said.

He quoted from the report of the special committee of Senate in regard to transportation, in which it was stated, in effect, by an expert who gave evidence that on the great lakes could be carried for \$1 what it costs the best situated railways in the United States to carry for \$27. However, in view of the great difference in the cost of construction, Mr. Kemp favored a railway from Georgian Bay to Lake Ontario as a substitute for a canal.

"If you are going to divert an appreciable amount of the grain business to Canadian channels, and thereby build up ocean ports like Montreal and Quebec, the short railway haul between Georgian Bay and Toronto, and the utilization of the canals, must be the important factor."

An exaggerated opinion may obtain in the minds of some as to the ability of the proposed air line railway to produce the effects desired, but whether that be so or not, it is certain that the construction of such a line would add another outlet to those already in existence for the produce of the great Northwest, which is now only in the initial stages of its development, for merchandise, like water, follows the channels of least resistance.

Mr. Kemp's request for prompt action was timely and not without reason, for promptness has not, for many years, been one of the peculiarities of the Toronto Board of Trade. Inaction is what it has become noted for.

The president may suggest schemes or call for cooperation, but, unless there be a willing response, he is like the commander of a vessel with a crew that will neither reef, sail nor steer. It is to be hoped that the board of 1899 will inaugurate a new order of things. It is not likely to be the president's fault if it does not.

Time flies, but it never goes over the same ground twice.

A UNIQUE WINDOW DEVICE.

A Toronto clothing and furnishing house has a window display which is attracting a great deal of interest, and which might be imitated by merchants in other lines.

Fastened to the inside of a window pane is a piece of cotton about eight feet long by four or five deep. The cotton is cut in the shape of a side elevation of a house, and is painted to represent a brick wall. The whole is roofed over, in order that the light may be excluded. A "brick" has been removed from two or three places, and, underneath each aperture, is a ticket with the words: "Take a Peep."

Of course, nearly everybody takes a peep, and, by the aid of the electric lights which are inside, one sees various articles appertaining to the men's furnishings trade tastefully arranged.

This is a display that any merchant in any town can imitate, and, if he has not electric lights to place inside the miniature house, he has, at least, a few candles.

ALUMINUM IN 1898.

By A. E. HUNT.

THE aluminum business in the year 1898 was in a very prosperous condition. All lines in which the metal has been used in the past have been increased in their demands during the present year, and very many new uses have developed. The leading lines in which larger tonnage of aluminum has been used in the year of 1898 have been in the use of aluminum for electrical conductors and in the utilization of the metal to replace brass and zinc for many of the common purposes where those metals have been exclusively utilized in the past.

During the year 1898, aluminum was sold in the form of sheet at prices which made it 10 per cent. cheaper than brass sheets for a given purpose, and 35 per cent. cheaper than copper sheets. The metal was not sold at as cheap a price as zinc sheets, but, for many purposes where zinc has been utilized in the past, special precautions have been necessary to protect the metal from corrosion by the substances with which it came in contact, and especially was this necessary as many of the zinc salts thus formed were very deleterious. Under these conditions, with the use of aluminum, the corrosion being much less in amount and the salts that are produced being nonpoisonous, it is not necessary to take the precautions to protect the metal that have been necessary with zinc sheets. In this way, for many uses where zinc has been previously required, aluminum has been found more economical. To-day, zinc sheets are not much cheaper than aluminum sheets. The tonnage of aluminum, which has thus replaced zinc and similar metals in the past year, has been fully equal to 500 tons. The amount of aluminum which has been used for electrical conductors during the past season has been fully 650 tons.

The total aluminum produced during the year 1898 has been 2,600 short tons, and arrangements are now being made for increasing the plant at Niagara Falls, New York, for the production of aluminum, which is expected to be in operation by May, 1899, which will about double the capacity.

During the first four months of 1899 every effort will be made to increase the output of aluminum with the apparatus now on hand, including the installation of some additional machinery which has been in stock with the Pittsburg Reduction Company for some years, since the shut-down of the manufacture of aluminum with steam-power at New Kensington.

The ruling prices for aluminum during 1898 have been uniform and steady for ordinary uses of the metal. For electrical

conductors, the price of aluminum in the form of bars, plates, sheet and wire has been between 28 and 29c. per pound at the point of consumption, according to the size of the order and the point of delivery to which the metal has been destined.—Iron and Steel.

TRADING STAMPS IN OTTAWA.

TRADING stamps are about as unpopular in Ottawa as they are in the rest of the Canadian cities into which they have been introduced.

A representative of The Ottawa Citizen called on some of the largest merchants of the city. Some of the opinions expressed by the latter are interesting.

C. Ross, of The C. Ross Co., Limited, said: "The giving of trading stamps enables someone to make a living easily. It is not the merchant who makes money out of trading stamps, neither is it the purchaser. The trading stamp company makes the money; they live like parasites on the people."

Fred. J. Graham, of Bryson, Graham & Co., were reported to say: "The whole thing is a farce. It is only another way of gulling the public; putting on five per cent. to take it off. Profits are cut as close as possible now. The stamp feature cannot be carried out legitimately the way profits are at present. A merchant in Ottawa advertised a sale, the other day—20 per cent. off; 5 per cent. less if you take stamps. So that is undoubtedly the way the thing is done. The only correct way of doing business is to mark the goods as close as it is possible to sell them and then stick to the price."

Stewart McClenaghan, of the "Two Macs" tailoring establishment adopted trading stamps some time ago. He said: "My regular customers take advantage of them as they do of any special sale: others are also attracted, but I cannot say that my increased business, if any, repays the outlay."

Ald. H. H. Lang said: "I disapprove of the whole system, but while such exists we are forced, in order to retain certain customers, to adopt one of the systems or the other."

The other merchants interviewed were unanimous in the opinion that the principle of trading stamps was wrong. S. A. Luke thought them "a humbug pure and simple"; A. J. Stephens stated: "To my idea the trading stamp scheme in promising something for nothing is not above suspicion"; M. M. Pyke declares that he was of the opinion that any institution which steps in between the buyer and the seller, offering any inducements whereby they may reap a profit which someone must pay for, is a pernicious system, and ought not to be tolerated in Canada.

THE GOLDEN FRASER.

Little has been heard about mining operations on the Fraser river lately, but it has been learned that Boston Bar, some 36 miles above Yale, is again turning out the precious metal in a handsome manner. Hydraulic mining is being pursued and the ground is said to be yielding from 50 cents to \$1.50 a yard.

A gentleman who came down from the scene of operations recently said to The Province. "I am surprised that so little is known in Vancouver about Boston Bar. The season's operations have been the best for many years. The water has been such that work has not been retarded. The system of securing the gold is by hydraulicing. A dredge is being used. I learn that one big company which is operating has taken out a vast amount of gold this season—probably \$10,000. The ground is paying from 50 cents to \$1.50 a yard and probably more. The exact figures are hard to obtain. Of course, Chinamen are still working in their own way, but what they are taking out it would be hard to say. They have never deserted the Fraser for 30 years. We look for a renewal of the good old days and it would not be surprising if the Fraser again commanded attention as in the past. People may rush off to Klondyke and Atlin but right at home is much valuable ground which yet remains to be prospected."—The Province, Vancouver.

REMOVING WALL PAPER.

To remove varnished paper from a wall is not so easy as it appears at first glance. One of the simplest and most practical methods of doing it is to take a fairly sharp chisel, of narrow width, and to score the paper across, rapidly removing, with the sharp edge, strips of the paper. If one or two applications of water are then made, it will soak through and allow the whole of the paper to be scraped off without a great deal of trouble. It is better to use the water hot, and in cases of extreme difficulty one or more coats of paste of an average consistency may be applied. The paste holds the water and permits it to soak through the paper more effectively than would water ordinarily applied.

**WIRE NAILS
TACKS
WIRE**

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

PRINCE EDWARD ISLAND TRADE.

THE following is taken from the report of President Horace Haszard, at the annual meeting of the Charlottetown Board of Trade :

The direct steamship service asked for by the board was inaugurated by the ss. Lake Winnipeg in September last, and she made a second trip in November, and after that the Canadian Steamship Co. were induced to send the Gaspesia, which sailed hence on December 25. Following was the value of the three cargoes :

Lake Winnipeg, first trip	\$35,148
Lake Winnipeg, second trip.....	60,000
Gaspesia.....	50,756

Detailed statements were given of these cargoes and of other shipments from ports of Queen's and King's counties to foreign markets. From the port of Charlottetown and outports in King's and Queen's the foreign shipments during the year totaled \$1,073,496, while the imports at same ports made a total of \$416,440, paying duties of \$121,016.92.

From Summerside and outports of Prince the shipments of the year were :

Products of fisheries.....	\$62,341
Products of forests.....	597
Animals and their products.....	95,096
Agricultural products.....	93,517
Total.....	\$251,551

The imports at Summerside and its outports totaled \$50,829, of which \$30,960 were dutiable, and \$28,869 free goods. The duties collected were \$10,944.

The total exports for the Island were \$1,325,047, and the dutiable imports \$296,775, paying \$131,960.92 in duties. The free imports were \$180,494.

Reviewing the agricultural business of the year it was mentioned that the wheat crop had largely failed, oats were light in yield and quantity, potatoes a short crop, but hay was abundant and of excellent quality. There was a fair demand for all products, and the importance of larger shipments of live stock than formerly was realized. Praise was accorded the Fruit Growers' Association for the interest taken in securing apples for shipment.

In regard to the dairying industry, T. J. Dillon was quoted to show that in handling milk, raising fodder of the right kinds, feeding and caring for stock, etc., the advance since 1892 has been enormous. Thirty-four factories made cheese during 1898, and of these 15 made butter also, and, in addition, there were 6 creameries. The output is estimated at 46,000 boxes of cheese, while 14 butter factories show 172 tons of butter. Eight butter factories were not heard from.

The number of cases of lobsters packed during the year were as follows :



PAINT & PROSPER

Painting and prosperity go together naturally. Paint is the outward sign of prosperity. Paint saves property. Increases its value. Twenty dollars worth of paint often adds two hundred dollars to the market value of a property. All owners reckon with this strange fact. But many put off painting too long, or paint without putting enough brains into the choice of paint, and their property "runs down." The paints that are made by thoughtful people for thoughtful people are

THE SHERWIN-WILLIAMS PAINTS

Their makers have tried for thirty years to make the best paint—the most enduring paint. They have succeeded. Every can of The Sherwin-Williams Paints is fully covered by a guarantee, and back of the guarantee are the reputation and all the resources of the company. You can be fully posted on paint by reading "Paint Points," an illustrated little book which we will send free on request.

THE SHERWIN-WILLIAMS CO. PAINT AND COLOR MAKERS,
Canadian Dept., 21 St. Antoine St., Montreal.

Prince county	16,000
Queen's county	11,000
King's county	15,112

Total 41,112

The oyster catch amounted to 29,800 barrels; mackerel, 3,149 half-barrels, valued at \$44,037; codfish, haddock and hake were plentiful, and a limited quantity of salmon were taken at Tignish and St. Peters.

MONTREAL HARDWARE HOCKEY LEAGUE.

The second scheduled game in the above league was played in the Arena rink on Saturday afternoon, January 21, between teams from Frothingham & Workman and Montreal Rolling Mills Co., before a large and very enthusiastic audience, and resulted in a victory for the "M" brand horseshoe boys by a score of 8 to 0. The play was more even than the score would indicate. The following were the teams :

M. R. M. Co.	F. & W.
White.....	Goal.....Morris
Geo. James.....	Point.....McPhillips
Moore.....	Cover Point.....Davis
Lawlor.....	Forwards.....McMahon
O'Dowd.....	".....Cummings
Wood.....	".....Carmichael
A. James.....	".....Warren
L. Allen.....	Umpires.....F. Richardson
Geo. Boyd.....	Timekeepers.....M. Polan

F. Ross Newman, of Caverhill, Learmont & Co., made an efficient referee.

ORE PRICES.

Horace J. Stephens writes from Ishpeming, Mich., to a paper in the United States, that the opinion of the most level-headed ore producers in the Bessemer pool seems to favor an advance of about 25 cents per ton on standard Gogebic Bessemer ore, which is the base from which prices are figured for all other Bessemer ores. A few producers favor a 15 or 20 cent advance and even fewer number incline to the opinion that 30 or 35 cents should be added. An advance of 25 cents on Bessemer ores would add about \$2,000,000 to the selling price of the estimated tonnage of 1899, of which \$400,000 to \$1,000,000 will probably go to the vessel owners in advanced freights, leaving the balance to be divided between operators and labor, with labor getting the lion's share. The advance of 25 cents seems very reasonable and fair to all interests. It certainly will not be sufficient to cripple the promising export business in iron and steel now being built up, and will afford much relief to mine owners, miners and owners of lake craft. Whether non-Bessemer will be able to score a proportionate advance is doubtful and a considerable differential will be placed against the fine grained Mesaba Bessemer in case the mines of that range are included in the 1899 pool. The 1898 pool expires by limitation, on April 30 next.

TRADE CHAT.

THE first stamp mill of Canadian manufacture to be installed in the Wabigoon District, Ontario, has been erected by Barber Bros., on the lower Manitou Lake. It is a ten-stamp mill and was made by The Jenckes Machinery Co., Sherbrooke, Que.

At the annual meeting of the Fredericton Board of Trade the following officers were elected: C. Fred. Chestnut, president; J. H. Barry, vice-president; J. W. McCready, secretary; W. Tennant, treasurer.

At the annual meeting of the Noxon Manufacturing Co., Ingersoll, Wm. Watterworth was elected president and R. H. Cotter general-manager. The works are now in full operation, over 200 men being employed.

The annual meeting of The Willson Carbide Co. was held in the company's office in Merriton a few days ago. A good year's business was reported. T. L. Wilson was elected president; D. D. McTavish, secretary-treasurer.

The Thousand Islands Carriage Co., Gananoque, Ont., is in difficulties, and has been closed since Christmas. As there were a number of carriages nearly finished and a lot of orders waiting, the works have been temporarily opened to finish up all orders.

The late W. C. White, proprietor of the White Boiler Works, Montreal, who recently died at his home, Dalhousie street, that city, had been in business as boiler and boat builder since 1860. He was also proprietor of a manufacturing establishment at Sorel, and there constructed a number of vessels for the Richelieu and Ontario Navigation Company.

A new graphite company that is to operate in the Ottawa district has commenced work on a property at Grenville, Que. This company will be capitalized at \$500,000, and is composed of Pennsylvania capitalists. The application for incorporation is now being made. The property at Grenville was worked in 1860, but since then has not been touched. The graphite is said to be 98 per cent. pure, and the deposit large.

CATALOGUES, BOOKLETS, ETC.**"THE CHAMELEON" REVIVED.**

The company whose employees are well-informed concerning and loyal to its interests should grow, for, in knowledge and unity of aim, is strength and progress. The Sherwin-Williams Paint Co., Cleveland, Montreal and Toronto, seem to realize this fact, for they have revived the issue of The Chameleon, a monthly magazine devoted to the dissemination of knowledge concerning paints and their sale, and the interests of the company, and intended for distribution

among their great staff of employees in the factories, offices and on the road. The first number of the new volume contains a photo. of H. A. Sherwin; of the new manager, W. H. Cottingham, and a group of the company's staff which met in convention in Cleveland in November last; also the greetings of Mr. Cottingham, and many topics of interest to the Sherwin-Williams Co.'s employees.

JACK TAR'S PREDICAMENT.

An old jack tar quoted by the Marine Journal had this to say recently about modern warships: "Things are busted wide open. How can a fellow swear on one of these new-fangled boats? He'd sound like a fool a sayin' of 'Shiver me timbers!' when there ain't nary a piece of timber, nawthin' but iron from bow to stern. A feller can't take a reef in anything, he can't belay, there's no belayin' pins, 'n he can't use any o' them old words which hez made their navy. I suppose a feller will now have ter yawp 'Unrivet me plates!' 'Douse me searchlight!' 'Smash me fightin' top!' or 'Foul me screw!' or somethin' o' that sort."

ARE INDEPENDENT AND CANADIAN.

The Toronto Silver Plate Co., Limited, manufacturers of silver and electro plate ware, Toronto, desire that the trade should all know that they are not members of the recently organized Silverware Trust, or of any silverware association or combine. They are a strictly Canadian company, employing Canadian capital and labor, and allow no outside interests to determine their business policy.

AUTOMATIC SACK WEIGHING MACHINE.

A Nottingham machine-maker is the inventor and manufacturer of an automatic filling and weighing machine, which is specially suitable for filling, and, at the same time, weighing, sacks of coal, cement, or similar material. It is exceedingly simple, and can hardly fail to do its work efficiently. The hopper, or inlet for the material to be weighed, can be closed partially or completely by shutters. The operator attaches an empty sack to the scale, opens the shutters and locks them. The coal or other material then flows into the sack, and its weight causes the sack to descend till the beam has traveled sufficiently far for the catch to release the inner shutter, which closes of its own accord. The material then enters only through two small dribble holes in the inner shutter, until, in a few seconds, the exact weight is in the sack. A trip lever then closes the outer shutter, the full sack is removed, and the filling and weighing of another sack proceeded with. Each sack hangs in equilibrium when full, so that its accurate weight may be seen at a glance. A machine of this kind must save a great deal of labor and time, and insure perfect accuracy. In addition, it registers, through a counter, the number of sacks weighed, so that miscounts cannot occur. It is claimed that two men can fill, weigh, and remove from 100 to 120 sacks per hour; or one man alone about 60. The man has only to attach an empty sack and pull down a handle; the machine does the rest. Until he has attached another empty sack and again pulled down the handle, the flow of material is cut off.



"G & J." tires this year will be fitted with "Goodrich Inner Tubes." "Pump 'em once a month."

Goodrich-made "G. & J." tires can't get loose from the second grove. They can't side-slip.

Nothing can equal them

in ease of attachment. They have—soft edge—no wire.

Get our catalogue. Get our catalogue proposition.

We have some good things for every dealer that is interested in tires—and wheels.

AMERICAN TIRE CO.

Limited

166 King St. West,

Toronto.

H. S. HOWLAND, SONS & CO.

37-39 Front Street West

WHOLESALE
ONLY

TORONTO

Special Notice.

On the 1st of February our travellers will have complete lists and special prices on all goods which we have now in the warehouse of Samuel, Benjamin & Co., 30 Front St. West. The prices will be very low, as we want to clear out the entire lot quickly.

This is an opportunity for the trade to secure some goods at very low prices for the Spring business.

Orders will be filled as received, and to the extent of the stock only.

Kindly reserve your Spring Orders, it will pay you to wait for our travellers.

H. S. HOWLAND, SONS & CO.

37-39 Front Street West

WHOLESALE
ONLY

TORONTO

Graham Wire and Cut Nails are the Best,

ST. JOHN HARDWAREMEN AT DINNER.

AS is usually the case, the fifth annual dinner of the St. John Iron and Hardware Association, which was held on Thursday evening last week at the Royal Hotel, St. John, was a success from first to last.

The chairman of the evening was the president, R. B. Emerson. To his right were Mayor Sears and S. Hayward, and to his left ex-Mayor Robertson and Joseph Henderson, of Halifax.

Thomas McAvity was vice-chairman, and he was supported by D. J. McLaughlin, president of the Board of Trade, and Joseph Henderson, of Halifax. Among the other gentlemen present were: Ald. T. B. Robinson, H. R. Sturdee, G. Ketchum, Oscar White, J. P. Macintyre, T. C. Lee, P. McMichael, John Keefe, G. McDonald, D. Hudson, G. McAvity, W. H. Trewartha-James, of London, W. S. Fisher, W. M. Jarvis, John Leck, A. M. Bowman, Charles McDonald, G. Beverley, Frank Watson, Thomas Bell, and J. J. Barry.

The table decorations were very beautiful, exciting much favorable comment. The quality of the repast provided may be judged from the menu, which is given below. The menu card was in the shape of a big steel I, which, when opened, made an H, symbolical of iron and hardware. It contained the following:

MENU.

Oysters on the Half-Shell.
Queen Olives. Sherry.
Green Sea Turtle. Consomme with Rice.
Salted Almonds. Celery.
Boiled Chicken. Halibut, parsley sauce.
Haute Sauterne.
Boiled Ham, champagne sauce.
Boiled Turkey, oyster dressing.
Roast Sirloin of Beef.
Yorkshire pudding, dish gravy.
Roast Haunch of Mutton, currant jelly.
Champagne.
Oyster Fritters, brandy glaze.
Lobster Salad.
Roast English Pheasant, bread sauce.
Roast Black Duck, black currant jelly.
Still Hock.
Macaroni, a l'Italian. Mushrooms on Toast.
Mashed Potatoes. Vegetable Marrow.
Green Peas.
Celery. Cheese.
Plum Pudding, hard and brandy sauces.
Port.
Lemon Sponge Pie. Strawberry Pie.
Bavarian Cream.
Sherry.
Fruit Jelly. Johannesburg Jelly.
Apples. Oranges. Malaga Grapes.
Confectionery. Crystallized Fruits.
Still Burgundy.
Nuts. Raisins. Assorted Cakes.
Johannesburg Ice Cream.
Coffee. Liqueurs.

Full justice was done to this repast by the hearty merchants of St. John; then, attention was directed in another direction.

"The Queen" was royally toasted with musical honors.

"Our Association," proposed by the vice-chairman, brought out a good speech from the president.

"Our Sister Associations," offered by the president, was responded to by W. H. Thorne and J. Henderson, of Halifax.

"The City of St. John and the Board of Trade" found capable champions in Mayor Sears, ex-Mayor Robertson and D. J. McLaughlin.

The toast of the "Iron and Manufacturing Industries" was responded to by T. McAvity, W. H. Thorne, Oscar White, Geo. McAvity and P. McMichael.

"Our Guests" came next, and W. M. Jarvis, Joseph Henderson, Oscar White, Geo. Robertson and W. H. Trewartha-James, of London, responded.

"The Ladies" were championed by Geo. Beverley, H. R. Rogers, Oscar White and others.

"Our Host" called forth a neat speech from W. E. Raymond.

A complete list of the officers and committees of the association is appended: President, Robert B. Emerson; vice-president, William Kerr; secretary-treasurer, John J. Barry; directors, W. H. Thorne, Thomas McAvity, James Pender; executive committee, R. B. Emerson, William Kerr, W. H. Horne, Thomas McAvity, James Pender, John J. Barry; wholesale committee, Emerson & Fisher, W. H. Thorne & Co., Limited, S. Hayward & Co., Limited, M. E. Agar, T. McAvity & Sons, Kerr & Robertson, I. & E. R. Burpee, H. Horton & Sons, James Robertson & Co., Limited; manufacturers' committee, J. C. Robertson, James Pender, George McAvity, George W. Ketchum, W. S. Fisher, P. McMichael, J. E. Whittaker; dinner committee, J. P. Macintyre, A. M. Rowan, John J. Barry.

FILLING CRACKS IN CASTINGS.

Many methods for closing cracks or pores in cast iron have been devised. Chemical, or other products, such as sal-ammoniac, are often used to cause the formation of iron salt, easily oxidizable, which, in a short time, gives a certain quantity of hydrated oxide-of-iron, says an exchange. This is made use of very often to stop up leaks which develop in metallic cylinders. This method is, however, a somewhat tedious one, several days being oftentimes necessary to obtain satisfactory results—to the extent, at least, of entire absence from leakage. A method of closing cracks or pores has lately been devised by M. A. Demalght, of Brussels. The cylinder is filled with a certain quantity of perchloride of iron. The liquid is then compressed until globules appear on the external surface, when it may be regarded as impregnated with perchloride of iron right through, as regards its thickness. Any remaining perchloride is then emptied out, and the cylinder wiped until the polished surface is again made brilliant.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

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Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM.

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HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel and will not heat. 1899 catalogue ready.

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Price Lists on application

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One Berry Spoon and Six Fruit Forks in Plush Lined Box.

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Manufacturers of _____

Sterling Silver and Electro Silver Plate.

In buying silverware from your jobber insist on it being stamped with our name on Electro Plate, or with our Trade Marks on Sterling Silver, stamped in this way the quality is fully guaranteed.

Bear in mind that we are not members of the **SILVERWARE TRUST** or of any **SILVERWARE ASSOCIATION** or **COMBINE**.

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"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

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In Four Different Sizes.

If your Wholesale House does not offer you these articles

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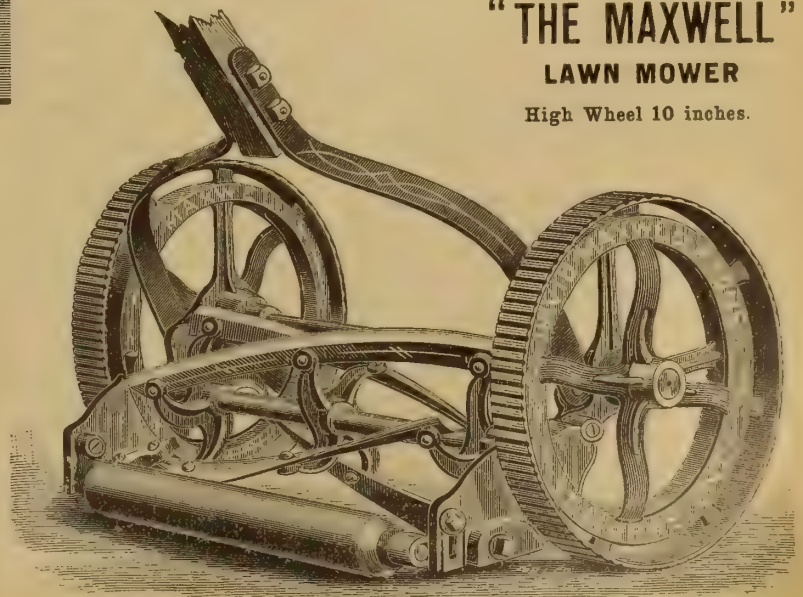
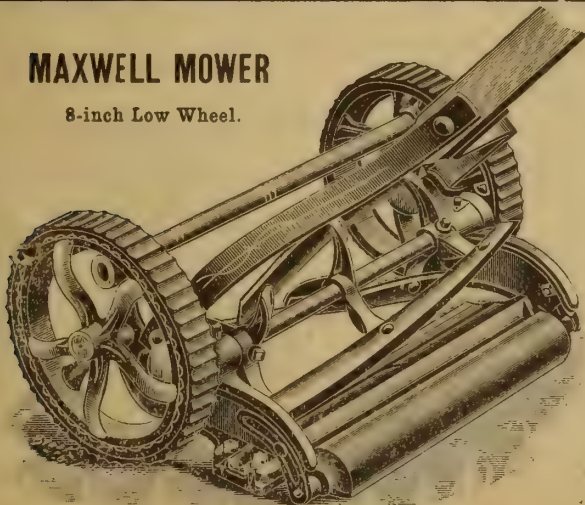
"THE MAXWELL"

LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



SPECIAL TO THE TRADE

We beg to inform you that the price on our **PURE PARIS GREEN** has been advanced this day two cents per pound.

The CANADA PAINT COMPANY, Limited

MONTREAL. TORONTO. VICTORIA.

MR. HEWITT'S PROPHECY ON PIG IRON.

WE have called attention at various times to the prophecy of Hon. Abram S. Hewitt, in his paper of Feb. 21, 1856, before the American Geographical and Statistical Society at New York, and its remarkable fulfilment 40 years later. Mr. James M. Swank comments on this in his brochure, "The American and Foreign Iron Trades in 1897," prepared for the United States Geological Survey, and from which we quoted a few weeks ago. In the current issue of the bulletin Mr. Swank adds the following:

"Recapitulating the world's production of pig iron at the three periods mentioned above, namely, 1855, 1878, and 1897, we have these results; 1855, 7,000,000 tons; 1878, 14,262,174 tons; 1897, 32,937,490 tons. We will now compare these results with some remarkable predictions made by Mr. Hewitt in his address above referred to.

"Looking backward over the world's iron history during the century preceding his address, Mr. Hewitt reached the conclusion that the future production of pig iron might be expected to double once in 20 years, except from 1895 to 1915, with the following results: 1875, 14,000,000 tons; 1895, 28,000,000 tons; 1915, 48,000,000 tons; 1935, 96,000,000 tons; 1955, 192,000,000 tons.

"Mr. Hewitt's prediction that the world would make 14,000,000 tons of pig iron in 1875 was practically verified, although our statistics show that it was not until 1878 that the production reached 14,262,174 tons. But it will be remembered that the period from 1875 to 1878 was one of almost complete stagnation in the world's iron and steel industries, so that, if the statistics of the production of pig iron in all countries in 1875 were given, it would be found that the production in that year was very little short of that of 1878. The statistics of the world's three great pig iron producers in 1875 and 1878 we give

below to prove the accuracy of this statement, and they are all that it is necessary for us to give: Great Britain—1875, 6,365,462 tons; 1878, 6,381,051 tons. United States—1875, 2,023,733 tons; 1878, 2,301,215 tons. Germany and Luxemburg—1875, 2,029,389 tons; 1878, 2,147,641 tons. These figures show very little progress from 1875 to 1878, so that virtually 14,000,000 tons, Mr. Hewitt's estimate, may be said to have been produced in 1875.

"Going back to our Annual Statistical Report for 1896 we find that we then presented a table showing the world's production of pig iron in 1895, one of the years embraced in Mr. Hewitt's horoscope. The production in that year we gave as 28,870,792 tons. Mr. Hewitt's prediction was 28,000,000 tons for that year.

"It appears, therefore, that, 43 years ago, a statistical student of the world's iron industry—at a period, too, when industrial statistics were in their infancy—foretold with remarkable accuracy the world's future production of pig iron down to the present time. That Mr. Hewitt's estimate of pig iron production in the years that are before us is likely to be more than realized is rendered exceedingly probable by the rapid strides that have been made in its production in the last few years, and particularly in 1898."

AMONG TORONTO RETAILERS.

*Good Times
In Parkdale.*

The merchants in Parkdale are in good humor this winter. I was in that section of the city one day this week, and every merchant I visited spoke hopefully of the present condition of affairs and of the prospects for spring and summer trade. Samuel Hobbs, hardware dealer, 1434 Queen street west, owns the lot next to his store. The scarcity of stores west of the subway is so great that he has been pressed to build a good-sized block on this lot by a person who is willing to take a five-year lease at a good liberal rental. As the condition of trade is steadily

improving and the stores are nearly all occupied, their is reason for Parkdale merchants feeling good.

*Preparing
For the
Bicycle Trade.*

The mild, spring-like weather of the past few weeks has left the streets of Toronto so clear of snow that hundreds of bicycles have been brought from their winter quarters, and are saving car tickets for their owners. This fact is drawing the attention of the general public towards the bicycle, and considerable inquiry and a fair amount of business has already been done in these goods and their accessories. It is not to be expected that the present fine weather for wheeling is likely to continue long, but it is, at the most, only six weeks or two months till spring will be here to stay. That is not too long to keep the bicycle before the eyes of prospective buyers. It is reasonable to expect a large business in bicycles this year on account of their cheapness. The large number of second-hand wheels now ridden is also likely to result in a good demand for parts, and to necessitate a large amount of repairing. The repair department should be soon in working order, and the public should be made to know that you have certain wheels on sale, that you have a full supply of parts, and that you are going into the repairing business even more extensively than last season.

THE RAMBLER.

There is a movement among the business men of Truro, N.S., in favor of closing their stores at six o'clock every night for five nights in the week, excepting any night preceding a holiday.



**TEST THE MATTER--
SAVE THE DOLLARS.**

Cheapest can faucet on
the market.

SAMPLE FREE.

J. M. LITCHFIELD

458 Quincy St., Brooklyn, N.Y.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon**KNOX HENRY.**Navy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.**SPECIALTIES**—C Brand Horse Nails—Canada
Horse Nail Co.**BOLTS**—Tire and Stove Rivets of all kinds—
Chalcraft Screw Co.**BRASS GOODS**—Gunn Castor Co., Limited,
Birmingham, Eng.**English Castor Oil**

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
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by all Hardware, Oil and Color men.The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

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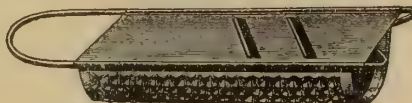
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Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.**M. SCHRAYER'S SONS & CO.,**
49 Blue Island Ave., Chicago, Ills.**ILLINOIS CUTLERY CUTS!****No. 1 Bread Knife Set.**One each, Bread, Cake and Paring Knife, malleable
handles firmly riveted to steel blades, will cut hot or cold
bread without crumbs. Each set in paper box.

PAT. AUG. 15. 1893.

**Combined Grater and Slicer.**The only one; slicer and grater are detachable; slicer
sheet made of Apollo galvanized iron with steel cutting
blades. It will slice cabbage apples, potatoes, cucumbers,
onions, turnips, beets, and everything in the vegetable line.
It is a time and labor saver; is used in the kitchen every
day.**Famous Parer and Slicer.**Polished beech handle, nickel plated steel blade and
ferrule, takes off an even peel, easily sharpened and
cleaned. The best paring knife for potatoes, apples, pears,
turnips, quinces and firm peaches. Write for our catalogue.Sole Canadian Agents, Squire, Watson & Co., Montreal,
Canada; Chas. E. Santo, London, Canada.**ILLINOIS CUTLERY COMPANY,**
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We are the Oldest and Largest Manufacturers of

**SCREWS and
BICYCLE PARTS**in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

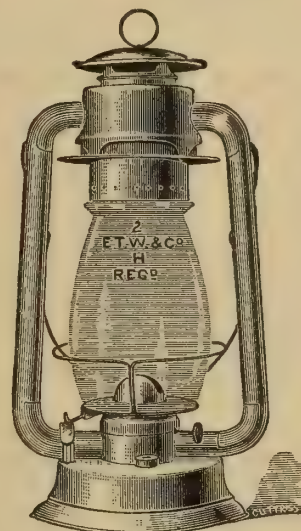
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John Morrow Machine Screw Co.

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E.T. WRIGHT & CO.

Manufacturers of

Milk Can
and
Creamery
Trimmings
Stamped and
Pieced
Tinware
Bird Cages
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Mouse Traps**HAMILTON - CANADA.****BINDER TWINE**PURE MANILA,
650 ft. to the lb.**SPECIAL MANILA****TIGER****STANDARD**There is none
"just as good."These twines will not bunch at the knotter, and a Binder will run
all day with them without stoppage, thus saving time, annoyance and
an endless lot of trouble.We pack our twine in bags of the size of ordinary grain bags and
are not ashamed to put our name upon them. Don't take any other.**CONSUMERS CORDAGE COMPANY, Limited**
Montreal.

THE LATE THOMAS TODD.

THOMAS TODD, flour-miller and produce and commission merchant, Galt, Ont., whose death was noted in these columns last week, was, for many years, one of the most conspicuous figures in Galt business circles.

The following sketch of his life, from The Galt Reporter, gives a good insight into the characteristics which resulted in a farmer-lad working his way to a position of responsibility and honor :

"The late Thomas Todd was born in Thurlstone, Ettrick, Scotland, on October 14, 1831. The family emigrated to Canada when he was three years old, but on the way out his mother was taken ill and died from the cholera, that dread disease having broken out on board the ship. The remainder of the little family, amidst much sorrow, proceeded westward after landing at Montreal, and took up farm lands on the Brock road, near Aberfoyle, where Thomas Todd, the father, continued farming for many years. He married a second time, as a result of which union two sons and three daughters were born. The sons are Peter Todd, of Walkerton, and Mitchell Todd, of Guelph, and the daughters all reside in Guelph, two being married. The subject of this sketch grew up on the farm, but, when he was about fifteen years of age, he determined to launch out into business life, and was apprenticed to James Kay, wagon-maker, whose shop was situated in what is now Cowan & Co.'s yard, on North Water street. There Thomas Todd learned his trade, but his mind seemed to be always looking forward to the time when the world would open up to him as a vaster sphere.

"No sooner through his trade is he than we find him accepting a situation as foreman of Wm. Robinson's wagon and carriage-works in a building where George Bernhard's block is now located, and in a short time going into a partnership with that gentleman, which lasted three years, when Mr. Robinson retired and a new partnership was formed, with Walter Brydon and Alex. Walker in the commencement of a carriage making and blacksmithing establishment at the head of Main street, which Mr. Brydon subsequently owned and carried on himself for many years. Only about two years did he remain in this firm, however, and then he joined John Davidson in putting up a wagon and carriage-shop where the Victoria Wheel Works now stands. Mr. Todd erected the initial buildings of the latter now extensive industry. About this time he was married to Sybella Nichol, a sister of George Nichol, of Beverley, by whom he had three children, two of whom died in early youth, and

Martin N. Todd, of Thomas Todd & Son, surviving. He had built the handsome stone house on the corner of Main and Shade streets, where Robert Scott now lives, and resided there for quite a number of years. Not having a great liking for his trade, however, Mr. Todd remained in it but a short time and then, with Alex. Carter (now of Elora) rented the brewery across the road, which is now Elliott's Soap Works, and went into brewing. They were not, however, successful in this enterprise, and selling out to Mr. Arnold, started business as produce and commission merchants. That was in the year 1873, and from then until November of 1886 he continued in that field of mercantile life. An untiring man, his energies seemed at times phenomenal.



The Late Thomas Todd.

His capacity for business was unlimited. His information on all subjects was large, and he handled, during those years, more produce of any kind and did a larger business than any other one man in this country outside the large centres.

"In 1886, with his son Martin and John Scott, he bought their large mill from Aitken & Waddell, of Glasgow, and started as flour-millers, under the firm name of The Todd Milling Co. Then his ideals of expansion were somewhat realized, for he could devote his whole energies to the development of a great business. When the fact is mentioned that from July, '97 to July '98, The Todd Milling Co. exported to Great Britain alone, an amount equivalent to 100,000 barrels of flour, it gives a partial idea of the immensity of the overturn of this mill. He several times crossed the Atlantic on business bent, the last occasion being in the fall of '97. Besides all this, in a business way, Mr. Todd for several years owned and carried on the Preston hop yards, now in the possession of John D. Moore, ex-M.P.P.

"The amount of money which passed through Mr. Todd's hands in these many years was truly something enormous. It was done through the instrumentality of the Merchants Bank of Canada, and his record as an upright business man is a legacy alone. The bank learned to trust his every statement, and his word was found to be absolutely correct. When he was a commission merchant, his export business amounted to about \$1,000,000 a year.

"In 1888, Mr. Todd and his son purchased the malt-house on the corner of Kerr and Shade streets from the Peck estate, and have continued to manage it with much success ever since.

"Mr. Todd was a man who recognized that, as a good citizen, he must take an interest in the welfare of the community in which he lived, and we find him participating prominently in all branches of social, municipal and religious life. The statement may be somewhat exaggerated, but it is the unvarnished truth, nevertheless, that little has gone on in the growth and history of Galt during the last 35 years that he was not more or less interested in, and few, if any, of the principal enterprises have not had a word of counsel and advice, at least, from him in some direction. An electric railway, connecting Galt with Preston and Hespeler, was for years a hobby of his, and he has been, almost since the inception of that road, the active president of The Galt, Preston and Hespeler Street Railway. Messrs. Todd, Spiers, Lutz, Cox and Capt. Dickson were the promoters of this splendid enterprise, but Mr. Todd was the watch-tower, as it were. He did not believe, as many business men do to-day, however, in opening his individual daily life with a door-key and closing it with a letter for the late mail. He comprehended fully his responsibility to use his talents for the welfare of his fellow-citizens. For many years he was the aggressive chairman of the board of managers of the (now) Central Church, it being owing to his influence on the board, largely, that the magnificent new church, next Main street bridge, was built. He was always a warm supporter of that congregation since his connection with it. For a number of years he sat at the council board; he was the county's representative on the board of directors of the Credit Valley Railway, since merged into the C.P.R.; he was for several terms the president of the Galt Board of Trade; he was on the Collegiate Institute board for many years, and at the time of his death was chairman of the property committee; he was an honorary director of the Economical Insurance Co., of Berlin; one of the charter members of the Imperial Hotel Company, he was president of the company since its inception; and was a member of the Toronto Board of Trade. He was, besides, in touch with every department of local public life. He also was one of the charter members of Waterloo Lodge, I.O.O.F. In politics, he was a staunch Conservative.

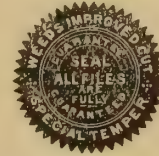
"Mr. Todd was twice married, the first marriage having been already referred to. His second wife, whose maiden name was Margaret Carter, survives. Mrs. Dr. Lowe, of Regina, an adopted daughter, and Martin Todd, are also survivors of the family."

If it's an ARCADE, it's THE BEST.

That the ARCADE FILE WORKS at Anderson, Indiana, is the largest and most completely equipped plant for the manufacture of files in the world, is a minor point. Its product is what you are interested in, and the ARCADE product stands at the head of file production for the common-sense reason that their methods and facilities are ahead of their competitors.

Mr. Alfred Weed, who is the superintendent and mechanical head of the company, is one of the oldest file makers in the United States, and has probably taken out more patents on file machinery than any other living manufacturer. The entire plant at Anderson is the product of his skill and practical experience, comprising machinery especially designed for turning out every detail of the work, not only by the most careful and systematic methods, but with the greatest possible saving of time and money. Fifty Cents goes as far here as a Dollar in many of the old-fashioned plants. Then, too, the company owns a tract of natural gas land from which their fuel supply is drawn—the cheapest fuel in the world; and buyers of ARCADE files get the advantage of all these economies by the increased value of the product.

WEED'S PATENT INCREMENT CUT FILES.



ARCADE FILE WORKS, ANDERSON, IND., U.S.A.

Established 1842.

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These facts show why it is safe for us to sell files under our guarantee that **THEY WILL CUT FASTER AND WEAR LONGER THAN ANY OTHER FILE ON THE MARKET, OR WE WILL MAKE NO CHARGE.** All our files have Weed's Improved Increment Cut, which equals the best English Hand Cut.

If you use files take advantage of this offer on a trial order, however small. There's absolutely no risk to you in the trial.

If it's an ARCADE, it's THE BEST.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Jan. 27, 1899.

HARDWARE.

THE week has certainly been an eventful one in general hardware circles, for, although the actual movement is not great, jobbers and traders generally are much excited by the remarkable and steady advance in raw material, and for the first time this week jobbers here gave indications of a disposition to follow the rise in cost. The firmness is specially noticeable in wire and material made from it, the fact being reflected in an advance in barbed wire and a higher price in wire nails, jobbers having decided to take advantage of the rise in cost, though they are well stocked up with the latter line. In copper goods also, owing to the rise in the metal, values are strong and there has been an advance of 5 per cent. in copper rivets and burrs. Altogether, the hardware and metal situation is a very firm one at present.

BARB WIRE—Demand is quiet, but, as a result of the great firmness in raw material,

prices have at last responded, and now the jobbing range is \$2.15 f.o.b. Montreal.

PLAIN WIRE—While makers have advanced values on plain wire, oiled and annealed wire is still jobbing out here on the basis of 37½ per cent. off the list, and galvanized at 35 per cent. How long they will continue to do so is another matter. In copper wire, owing to the appreciation in the price of copper, values are from 10 to 15 per cent. higher than they were.

WIRE NAILS—The strength in these has at last had an effect on the jobbing range here and it is quoted 10c. higher at \$1.80 f.o.b. in small lots, but car lot orders are still being filled here this week on the basis of \$1.70 f.o.b. Montreal.

CUT NAILS—There is very little business reported in these and prices are steady at \$1.75 f.o.b. Montreal, Toronto, etc.

HORSE NAILS—There is only a moderate business doing in horse nails. Discounts are Standard, oval head, 50 per cent., and Acadia, countersunk head, 50 and 20 per cent. off the list.

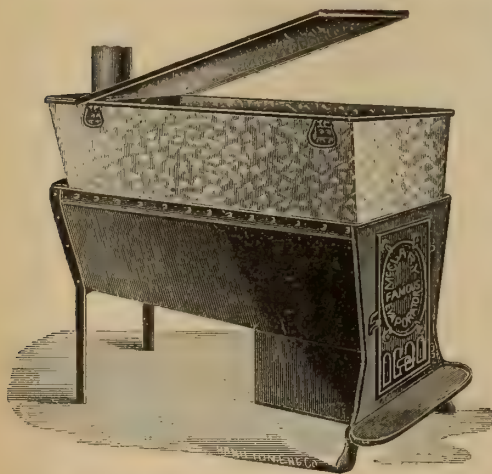
HORSESHOES—Business continues quiet.

We quote as follows: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—Business has been of a fair character at the rise. Discounts are: Flat head bright, 85 and 5; round head do., 77 and 5; flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass, flat head, discount 25 per cent.; round head, 20 per cent.

BOLTS—Inquiry is not especially active, but tire bolts are asked for more. Discounts are as follows: Carriage bolts, ¼ to 5-16, 70 per cent.; ¾ and up, 60 and 10; machine bolts, ¼ and 5-16, 70 per cent., and ¾ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—There is a quiet Business in these, the chief feature of the week being an advance of 5 per cent. in the price of copper rivets and burrs, as a result of the remarkable rise in raw material. Discounts are:



FAMOUS EVAPORATOR OR... Feed Boiler.

**CAN ALSO BE USED FOR MAKING SAP.
BEING LIGHT, CAN READILY BE
CARRIED INTO THE BUSH.**

Boiler made of galvanized iron with tight seams, galvanized cover. Fire box has cast iron grates and linings, with steel flues, so protected as to prevent warping. Heat passes over the entire bottom of boiler.

MILK CAN and DAIRY TRIMMINGS

Milk Can Trimmings Creamery Can Trimmings

A full stock of tinned sheets for milk cans and cheese vats always on hand at lowest market prices.



Mica Creamery Gauge Patented

**Cannot Leak
Cannot Break.**

**For prompt shipment
order from McClary's.**

The McClary Manufacturing Company

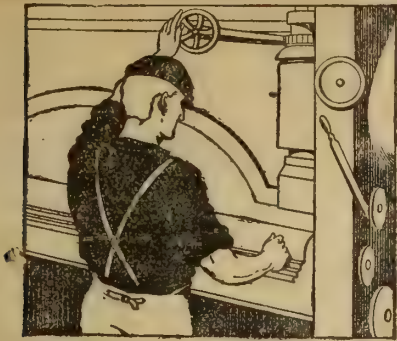
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



All workers in galvanized iron agree that Apollo is best.

It is cheapest too.

Apollo Iron and Steel Company
Pittsburgh

**Fire Bricks and Fire Clay
Boiler Seating Blocks
Gas Retorts
Stove Linings and
Grate Backs
Portland Cements**

F. HYDE & CO.

31 Wellington street, MONTREAL
Importers and Dealers.

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

65 per cent. on black and tinned and 40 per cent. on copper.

CORDAGE—There has been a decline in both sisal and manila rope as a result of the weak hemp markets. We quote: Sisal, $9\frac{1}{4}$ to $9\frac{3}{4}$ c. for 7-16 and upwards, according to size, and $10\frac{1}{4}$ to $10\frac{3}{4}$ c., for manila, smaller sizes than 7 16 1c. advance. Business is inactive in this line.

CHURNS—There is a quiet trade to report, and prices are steady.

CLOTHES WRINGERS—Demand is quiet and prices are steady at \$26 to \$30, according to brand.

HINGES—There is a moderate inquiry for these. We quote as follows: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

CEMENT—There is little or no motion to the cement market. We quote: English, \$2.25 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10.

FIREBRICKS—There is a fair trade in a small way. We quote \$18.50 to \$24 per 1,000, as to brand.

METALS.

The strength of all kinds of iron and metals continues unabated. Pig iron continues to appreciate in value outside, also steel billets and other raw material, while there have been further sharp advances in copper, tin, spelter, etc., on the rise noted specially last week. In fact, old observers of the iron and metal trade state that they have never seen the market more excited than it is at present.

PIG IRON—This material, in sympathy with the strength outside, is held firm and higher, and is likely to advance still further, for the very good reason that values in Canada are not on a parity with those outside. We quote Scotch pig at \$18.25 to \$19.50 for Summerlee and equal brands. No. 1 Hamilton, \$15.50 to \$16, and Ferona, \$15.50 to \$16.

SCRAP IRON—Offerings of old scrap on this market are somewhat heavy, but values are steady on the basis of \$12 to \$12.50 for No. 1 wrought scrap.

BAR IRON—As a result of the rise in iron and metals generally, bar iron is held at higher figures this week, and it is doubtful now if \$1.40 would be shaded in the case of a car lot, while \$1.45 is the basis for smaller quantities.

HOOPS AND BANDS—Quiet, and firmly held at the rise noted last week, \$2.

SHEET STEEL—There is no change in this material, while business is moderate. We quote: 10 to 16 gauge, \$2.15; 18 to 20 gauge, \$1.90; 22 to 24 gauge, \$2.10; 26 gauge, \$2.20, and 28 gauge, \$2.25.

GALVANIZED IRON—Inquiry for importation continues active, and all advices report

Cast Steel

SANDERSON'S famous make.
Good stock of "Self-Hardening,"
"Extra Annealed," "Superior
Tool," and "Special Drill" Steels.

Special sizes and grades shipped promptly
from factory at Syracuse, N. Y.

A. C. LESLIE & CO.

MONTREAL

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.
Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

firmness in Great Britain. From stock prices are firmly held, but not quotably changed, the movement being moderate at \$4 to \$4.15 for No. 28 "Queen's Head," while "Comet" brand No. 28 is quoted at \$3.75.

INGOT COPPER—There has been a further remarkable rise in this metal, the price having risen in New York during the past six days \$1.25 per 100 lb. On spot, sellers hardly know what to ask, and will not accept large orders for forward delivery, and are asking a rise of 2c. on last week's prices, 16 to 16¼c. now being the range.

SHEET COPPER—This material is also ½c. higher than it was last week, on deliveries from stock here, and a further advance is expected at any moment. We quote: 16-oz., 18½ to 19c., and 14-oz. 20 to 20½c.; tinned copper, 16-oz., 21c.; 14-oz., 22c., and planished 14-oz., 27c.

INGOT TIN—The market continues very excited in this metal, prices in London having advanced over £10 the ton during the past week, while it has risen in New York \$2.75 per 100 lb. As a result of this there has been a rise here of 3½c. per lb., and we quote Lamb and Flag, 27½c., and Straits, 27c.

PIG LEAD—This metal has ruled steady at the late rise, and we quote \$3.90.

IRON PIPE—Quiet but firm. We quote as follows: Black pipe, ¼-inch, ⅜-inch, and ½-inch, \$2.35; ¾-inch, \$2.80; 1-inch, \$3.85; 1¼-inch, \$5; 1½-inch, \$6.70, and 2-inch, \$9. Galvanized, ½-inch, \$3.95; ¾-inch, \$4.80; 1-inch, \$6.65; 1¼-inch, \$9.15; 1½-inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—Steady, with a fair inquiry. We quote ordinary, 7c., and composition waste, 7½c., with 25 per cent. discount.

CANADA PLATE—There is no change to report in these, but values are firmly held. We quote: 52's, \$2.15 to \$2; 60's \$2.30; 75's, \$2.35; full polished, \$3; galvanized Canada plate, 52's, \$3.75.

TIN PLATES—Trade fair and prices firm in sympathy with advices from sources of supply. We quote: Coke, I.C., \$2.90 to \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.25; do, I.X., \$4.10 to \$4.25; Lincoln, \$3.50; P.D. Crown, I.C., \$3.95; do, I.X., \$4.95; Bradley's, \$5.75.

TERNE PLATE—Steady, but quiet at \$6 to \$6.25.

COIL CHAIN—Quiet, as last reported. We quote: ¼-inch, \$4.75 5-16, \$3.50; ⅜, \$3.15; 7-16, \$3; ½-inch, \$2.80 and ¾ up, \$2.80.

SHEET ZINC—Values are firm and sellers are disposed to ask an advance of 7c. this week.

SOLDER—The firm feeling in solder is fully maintained and we quote 12½ to 13c.

ANTIMONY—No further change has been reported this week and we quote 9 to 9½c.

SPELTER—Prices have advanced 10c. per 100 lb. in New York, and here values are stiff at 6c. for American and 6½c. for V.M.

GLASS.

There has been no change in the glass market. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

With strength conspicuous in all raw material, the paint and oil situation continues strong, and, though no change in the price of finished material is to report, the tone is quite firm. Demand on spring account is opening up well; in fact, the volume of orders, according to leading makers, shows a decided improvement over that for the corresponding period last year. An advance of 2c. per lb. has taken place in the price of paris green.

WHITE LEAD—Best brands, Government standard, \$5.62½; No. 1, \$5.25; No. 2, \$4.87½; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, 4½c.; kegs, 4¾c.; No. 1, casks, 4¼c.; kegs, 4¼c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Quiet at 8¼ to 8½c.

SEAL OIL—37 to 40c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

PETROLEUM.

Steady and unchanged. We quote: "Crown Acme," the new Sarnia oil, is selling at 15½c. in small quantities; Cana-

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

**JOHN FORMAN, 650 Craig Street
MONTREAL**



Force
Lift
Cistern
Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDUGALL CO., Limited
Galt, Canada.

The Merchants Mercantile Co.

260 St. James St., MONTREAL.

Mercantile Reports and Collections.

Our method of furnishing commercial reports to our subscribers gives prompt and reliable information to date. Every modern facility for the collection of claims.

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To Our Patrons

We extend
prosperity and
ing the year
inform them

OUR best wishes for
happiness dur-
1899 and beg to
that our new

CATALOGUE

is now in print
about 1st February.
been revised to
and many new and

and will be ready
Our prices have
meet competition
desirable lines

OF BRUSHES

have been added.

It will pay you to

See it before placing your orders.

Meakins, Sons & Co.

313 St. Paul Street,
Montreal, Que.

King Street East,
Hamilton, Ont.

dian refined, 14c.; American prime white, 17c.; water white, 18c.; Pratt's astral, 19½c.

ASHES.

The market is strong owing to small receipts, and prices have advanced. We quote: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Trade quiet. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Copper rivets and burrs have been marked up 5 per cent.

The f.o.b. boxes of barbed wire here have been marked up by jobbers 15c. per 100 lb.

All leading metals continue their advancing tendency, as noted in our market reports.

Spot prices on ingot tin are 3½c. higher than they were last week as a result of the strength abroad.

Wire nails for the first time this week gave some indications of responding to the strength in raw material values in a jobbing way, being advanced 10c. per keg.

ONTARIO MARKETS.

TORONTO, Jan. 27, 1899.

HARDWARE.

WIRE and wire nails are still the most interesting feature in the hardware trade. The very lowest price at which jobbers will now sell wire nails is \$2, and they are not asking for business even at that price, as they anticipate that they will be getting higher figures within even a few days, while for the future they anticipate very high prices compared with those which have been ruling lately. Fencing wire shows a further advance. The same is also to be noted in regard to brass and copper wire. Plain wire is also dearer. Business in the wholesale hardware trade is of a satisfactory nature, all the houses reporting a good business for this time of the year. A good many orders are being booked for future delivery in such lines as harvest tools, screen doors and windows, and a few orders are being booked for spades and shovels for future delivery. Horse nails are in good demand and a fair business is being experienced in horse shoes. Business is still good in screws, and in stove and tire bolts an increased demand is to be noted. In rivets and burrs the feature is an advance in the price of the coppered kind. Rope is still quiet. Payments are fair.

BARB WIRE—There has been a further advance in barb wire by the Canadian makers, prices now being 10c. higher than



TO COUNT THE COST OF A LATHING

You should not only consider the first price, but also the amount of time and material used in applying it.

Hayes' Patent Steel Lathing is easily proved the most economical made, as it requires 75 per cent. less material and labor to apply it than other forms. Make a test before ordering and be convinced.

Besides, it is the most durable, holding the mortar so firmly it can never crack or drop off.

Used in the best modern buildings because of its unvarying reliability.

Shall we send further information?

METALLIC ROOFING CO., Limited

1179 King St. W., Toronto.

a week ago. We now quote f.o.b. Toronto: Four-point, \$2.10; 2-point, \$2.15; safety barb wire, \$2.25. Staples are also dearer, being quoted 25c. higher at \$2.50 per 100 lb. for galvanized, and \$2.25 for bright. There is a fair business being done on local account.

WIRE—Galvanized fencing wire is dearer by 5 to 10c. per 100 lb. in the sizes which are not dutiable, and we quote as follows: No. 9 \$1.85 per 100 lb.; No. 12, \$1.95, do.; No. 13, \$2.05, do. Plain wire is also dearer, the discount now being 30 per cent. f.o.b. Montreal to the retail trade, and 25 per cent. f.o.b. Hamilton. The advance in the discounts is due to the different lists.

WIRE NAILS—The market is decidedly stronger, and the ruling price now quoted by jobbers is \$2 per keg, while manufacturers are not quoting less than \$1.95 to the jobbers for car lots. It is estimated that if the manufacturer had to make his nails from wire bought at to-day's prices it would cost him something like \$2.10 per keg, so it is reasonably certain that higher prices are likely at any moment to prevail. At the prices now ruling, manufacturers and jobbers are not anxious to do business. In fact, they would rather not sell at all.

CUT NAILS—There has been no change in the price of these, and the demand is still light. We quote \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—The demand is good and prices unchanged. Discounts are: Standard, oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—There is a fair business being done in this line. We quote as

follows: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—Notwithstanding the advance in price of about 14 per cent. announced last week, the demand for screws is still active. We quote discounts: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

BOLTS—An improved demand is being experienced for both tire and stove bolts. Prices remain as before. We quote as follows: Common carriage bolts, ¼ to 5-16 inch, 70 per cent.; ditto, ¾ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 60 and 10 per cent.; coach screws, 70 and 10 per cent.; blank bolts, 60 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, 4¾c.; hexagon, 5¼c.

RIVETS AND BURRS—The feature in this line is an advance of about 9 per cent. in the price of coppered rivets and burrs, the discount now being 40 per cent. instead of 45 per cent. We quote as follows: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 40 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—There has been no further change in the price of rope, and trade is still only small. The recent decline appears to have been due to the fact that some Belfast rope was being sold on this market. The outside markets remain fairly steady, and a cable from Manila states that the receipts last week were 13,000 bales, against 20,000 bales the same week in 1897. We quote as follows: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A few orders are still being booked for future delivery. We quote as follows delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Nothing new to be noted. We quote as follows: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

WARE—A good business is being done by manufacturers of enameled ware in booking orders for future delivery. Orders from the eastern part of the Province are particularly good. A good business is also being done in pressed ware.

BRASS AND COPPER WIRE—There has been another advance of 17½ per cent. in this line, and the discount is now 20 per cent. advance on the list. The total advance during the last month in brass and copper wire is about equal to 50 per cent.

CEMENT—A fair movement is reported. No change is noted in prices. We quote in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do., \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

METALS.

The metal market rules firm. Tin is the feature of the market, being quoted higher both at home and abroad. Copper is also higher, and spelter, while unchanged locally, is quoted in the outside markets above the figures ruling last week.

PIG IRON—The market keeps firm with business fair.

BAR IRON—Quiet and unchanged at the base price of \$1.45 from stock and \$1.35 from factory.

BAND IRON—Dull. We quote as follows: \$1.65 to \$1.75 per 100 lb. for Canadian and \$2 for imported.

SHEET STEEL—Very little doing. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge,

\$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

BLACK IRON—Still dull. We quote as follows: 10 to 12 gauge, \$2.25 to \$2.40 per 100 lb.; 14 to 16 gauge, \$2.60 to \$2.70; 18 to 20 gauge, \$2.30 to \$2.40; 22 to 24 gauge, \$2.25 to \$2.35; 26 gauge, \$2.30 to \$2.40; 28 gauge, \$2.45 to \$2.55.

GALVANIZED IRON—Both "Queen's Head" and United States brands of galvanized iron have again advanced during the past week on the outside markets. This is the second advance in less than two weeks. We quote: "Queen's Head," 16 gauge, \$3.75; 18 to 24, \$4; 26 gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3.15; 18 to 24, \$3.30; 26 gauge, \$3.55; 28 gauge, \$3.90. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. In "Queen's Head," less than case lots are quoted 25c. per 100 lb. higher than above figures.

INGOT COPPER—The market is still bullish, during the past week there having been further appreciations in values. The high prices ruling are making buyers in the outside markets somewhat diffident about paying them. On the Toronto market, a good demand is to be noted, and quotations are 2c. per lb. higher, at 17 to 17½c per lb.

PIG TIN—This has been the strongest metal on the market during the past week. There is a considerable short interest still uncovered in London, and that market is particularly strong. Stocks on the Toronto market are getting scarce, and quotations are 3½c. per lb. above those ruling a week ago.

PIG LEAD—Prices are being firmly held. Locally the market is quiet and quotations unchanged. We quote 4c. for imported.

LEAD PIPE—Business is moderate. We quote: Ordinary pipe, 7c., and composition waste, 7½c., with 25 per cent. discount.

IRON PIPE—The market is firm and the demand fair. We quote: Black pipe, per 100 feet, ¼ to ¾ inch, \$2.30 to \$2.40; ½ inch, \$2.30 to \$2.35; ¾ inch, \$2.80 to \$2.85; 1 inch, \$3.90 to \$3.95; 1¼ inch, \$5.14 to \$5.20; 1½ inch, \$6.75 to \$6.86; 2 inch, \$9.10. Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$6.75; 1¼ inch, \$9.15; 1½ inch, \$11.75; 2 inch, \$16.

RANGE BOILERS—A fair business is still being done. We quote: Galvanized, 30 gals., \$5.25; 35 gal., \$6; 40 gal., \$7; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—Business continues light. We quote: All-bright, \$2.85 to \$3; half-polished, \$2.35; all-dull, \$2.25.

TINPLATES—Several orders are being

booked for tinplates this week. Local quotations are unchanged, but prices are increasing in both England and the United States.

COIL CHAIN—Very little being done. We quote as follows: ¼ in., \$4.65; 5-16 in., \$3.75; ¾ in., \$3.25; 7-16 in., \$3.15; ½ in., \$3.10; ¾ in., \$2.80; ¾ in., \$2.75.

SHEET ZINC—Some business is being done, but it does not amount to much. Prices are steady and unchanged. We quote 7¼c. for cask lots, and 7½c. for smaller lots.

ZINC SPELTER—The spelter market continues to rule strong. Local quotations are unchanged at 5¼ to 6c. for imported.

SOLDER—Prices show a further appreciation, being 1c. per lb. higher than a week ago. We quote: Half-and-half, at 16½ to 17½c. per lb.; refined at 15½ to 16½c. per lb., and wiping at 14½ to 15½c. per lb.

PAINTS AND OILS.

Business for spring delivery is opening up nicely. Orders for lead, zinc, glues, brushes, coach colors and general sundries are coming in freely. Linseed oil is moving well. Prices are firm, with indications of an advance. White lead continues to move in good quantities, at firm, unchanged prices. Turpentine is not in active demand, and prices keep firm without change. Castor oil is firmer in the primary market. Sulphate of copper is in good demand. There is an increase of 2c. per lb. in paris green. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$5.75; No. 1, \$5.37½; No. 2, \$5.00; No. 3, \$4.62½; No. 4, \$4.25; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.75; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 6½ to 7½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, $9\frac{1}{2}$ c. per lb. and $10\frac{1}{2}$ c. for single tins; United States, in cases, $8\frac{1}{2}$ c., and $9\frac{1}{2}$ c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 50c.; boiled, 1 to 4 barrels, 53c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

A fair amount of business is being done. The probability of a strike in the Belgian coal mines, which would interfere with the supply of coal for the glass furnaces, is combining with a big demand to stiffen the European market, and an advance of one point, equivalent to about 4 per cent., is reported this week. Prices are unchanged. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

A good demand is reported, but small deliveries are keeping the market quiet. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per lb.; bottoms, 8c.; heavy copper, $8\frac{1}{4}$ to $8\frac{1}{2}$ c.; light scrap brass, 4 to $4\frac{1}{2}$ c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, $7\frac{1}{2}$ c.; scrap lead, $2\frac{1}{8}$ to $2\frac{3}{8}$ c.; zinc, $2\frac{1}{4}$ c.; scrap rubber, $3\frac{1}{2}$ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

PETROLEUM.

A good business is reported. Prices are unaltered. We quote at Toronto: Canadian, $13\frac{1}{2}$ c.; Sarnia water white, 15c.; American water white, $16\frac{1}{2}$ c.; Pratt's astral, 16c., in bulk.

COAL.

Prices continue firm, and there is still a scarcity of small sizes, especially nut, which is almost impossible to secure under any circumstance. This shortage is not confined to Ontario, but is affecting all the Pennsylvania, New York and Ohio towns. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

Paris green is 2c. per lb. dearer. Solder shows an advance of 1c. per lb. Pig tin is quoted at $27\frac{1}{2}$ to 28c. per lb. by local jobbers.

The discount on brass and copper wire is 20 per cent. advance on the list.

The discount on copper rivets and burrs has been reduced to 40 per cent.

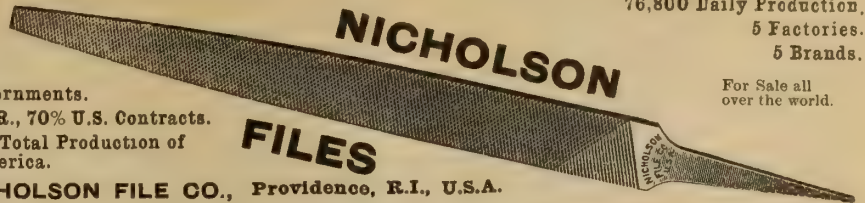
Barb wire is 10c. per 100 lb. higher, and all plain and fence wires are dearer.

Ingot copper is quoted 2c. per lb., bolt or bar, and sheet 1c. per lb. dearer.

Glass has advanced one point, or about 4 per cent. in Belgium, partly on account of the active demand and partly because of a threatened strike in the Belgian coal mines,

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.
5 Factories.
5 Brands.

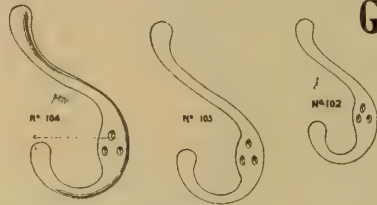
For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS. Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.



Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220½ Board of Trade, MONTREAL.

Coppered Steel Spring Wire

Standard for furniture springs, high-grade, fully guaranteed for special purposes. . . .

THE B. GREENING WIRE CO., Limited

Hamilton, Ont., and Montreal, Que.

ONE PROFIT

from manufacturer to retailer.

When buying cutlery the nearer you get to the manufacturer the better.

True Brand

is made by our own factories, and our trade mark guarantees the quality.

E. F. WALTER & CO.
MONTREAL

which would affect the coal supply for the glass furnaces.

Stewart & Wood are handling the "Bugle" brand of glass this season.

By referring to the advertisement of H. S. Howland, Sons & Co., the trade will see that this firm is starting a sale of goods contained in the warehouse of M. & L. Samuel, Benjamin & Co. This is an opportunity for the trade throughout the country

BELLEVILLE BUSINESS COLLEGE.

ESTABLISHED 1889.

Students have a larger earning power who acquire the following lines of preparation under our efficient system of training. It has no superior.

1. Bookkeeping,
2. Shorthand,
3. Typewriting,
4. Telegraphy, Commercial and Railway Work,
5. Civil Service Options.

Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

Address: J. Frith Jeffers, M.A.
Belleville, Ont. Principal.

to procure goods at a low price, especially in view of the general advancing tendency of the hardware market.

SOIL PIPE AND FITTINGS.

On account of the advance in raw materials, quotations in Canada and the United States have been withdrawn on soil pipe, and higher figures are naturally expected.

MANITOBA MARKETS.

WINNIPEG, Jan. 24, 1899.

THE market here is remarkably quiet, in fact, practically nothing is being done. Wholesale houses are still busy taking stock, and will be for another week. A general rise in prices is anticipated, owing to the upward tendency of outside markets, but this will hardly occur until spring trade begins to move.

A heavy building trade is anticipated in the spring, and stocks are being bought with that in view.

Prices for the week are as follows :

Barb wire, 100 lb.	\$2 50
Plain twist	2 40
Wire and staples	2 90
Oiled annealed wire	10 2 80
"	11 2 90
"	12 2 75
"	13 2 90
"	14 3 00
"	15 3 50
Wire nails, 30 to 60 dy, keg.	2 35
" 16 and 20	2 40
" 10	2 45
" 8	2 50
" 6	2 65
" 4	2 75
" 3	3 00
Cut nails, 50 and 60 dy.	2 15
" 20 to 40	2 20
" 10 to 16	2 25
" 8	2 30
" 6	2 35
" 4	2 60
" 3	2 85
" 3 fine	3 15
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.05 basis.	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 to 24 gauge	4 00
26 gauge	4 25
28 gauge	4 50
Genuine Russian, lb.	12
Imitation	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tin plate, IC charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	12 50
Canada plate, 18 x 21 and 18 x 24	3 00
Sheet zinc, cask lots, 100 lbs.	8 00
Broken lots	8 50
Pig lead, 100 lbs.	4 25
Wrought pipe, black, 3/4 inch.	2 50
" 3/4 inch.	2 75
" 1/2 inch.	3 00
" 3/4 inch.	4 00
" 1 inch.	5 00
" 1 1/4 inch.	7 00
" 1 1/2 inch.	8 50
" 2 inch.	11 50
" Over 2 inch.	65 p.c.
Rope, sisal, 7-16 and larger.	11 00
" 3/4 and 5-16	11 50
Manilla, 7-16 and larger	12 00
" 3/4	13 00
" 1/4 and 5-16	13 50

Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 800
Screws, flat head, iron	85 p.c.
Round "	77 1/2 p.c.
Flat " brass	80 p.c.
Round "	72 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	55 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	28c.
Spades and shovels	40 p.c.
Harvest tools	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	58
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M	16 00
American, M	16 25
Shot, Ordinary, per 100 lbs	6 25
Chilled	6 75
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	.70 and 30 p.c.
Granite ware, according to quality	50 to 60 p.c.

NEW YORK METAL MARKET.

PIG TIN—The speculative excitement in London was unabated. Not only were higher prices paid, but prompt delivery sold at about 5 to 10s. premium over three months' futures, indicating a sharp squeeze of "shorts." New York speculative quarters, outside of private offices, were neglected and more attention was given to the Stock Exchange "ticker" than to the market for metals. However, the fact was brought out plainly that stocks are well under control and holders nowise inclined to yield, except, perhaps, to a very limited extent. Business was effected at prices in line with 24 3/4 to 24 1/2 c., free on board, for five-ton lots, and about 24 3/4 c. for ordinary jobbing quantities from store.

COPPER—There is still fairly good buying in a quiet way, the greater portion being for export account. Speculative "booming" is being pushed as much as possible in Boston, but only in clerical way in New York. Actual trading basis did not vary much, however, from the basis of 15 1/2 c. for Lake Superior ingot, although some quotations as high as 16c. were given out for that metal and corresponding figures for other varieties. In the London market merchant bars advanced about 10s. per ton and the "bull" feeling there was seemingly pronounced.

PIG LEAD — Moderate business only is being effected at the moment, but considerable juggling with "official" prearranged quotations is being indulged in here. Actual buying for consumptive account was only fair, and chiefly at about 4.25 to 4.30c. for common domestic, delivered in this quarter.

SPELTER—Prices are being held fairly firm at 5.35 to 5.45c. for prime western, delivered here. The improvement is due to better understanding among the ore interests and more confidence in consumptive quarters.

TINPLATE—Sellers speak more favorably of business and general complexion of the market, but nothing more definite or satisfactory has come out regarding the "trust" manœuvres. Prices are greatly nominal at present.

IRON AND STEEL—Business of quite good volume is passing in crude material generally, and prices are being held quite firmly throughout. Manufactured iron and steel in general remain firm.—N. Y. Journal of Commerce.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



BINDER TWINE FOR SALE.

SEALED TENDERS, endorsed "Tender for Twine," and addressed "Inspector of Penitentiaries, Ottawa," will be received until Wednesday, the 15th of February, inclusive, for the prospective output of the twine factory at the Kingston Penitentiary for the current year. The lot consists approximately of five hundred (500) tons of "Pure Manilla," "Mixed" and "Pure Sisal" twine, and includes the twine on hand and manufactured since the 1st of August last, as well as that which may be manufactured before the 1st of August next. The twine will be delivered f.o.b. cars Kingston in quantities to suit the purchaser. The Penitentiary warehouse to be cleared of all twine on the 1st of August next, at which date the contract will terminate.

Terms—Cash on delivery.

The quality of the twine may be ascertained by inspection at the Penitentiary warehouse.

Tenders should state the price per pound for each grade, and must be accompanied by an accepted cheque for two thousand dollars, payable to the Minister of Justice, which, in the event of the tender being accepted, will be retained by the Department as a guarantee of the faithful performance of the contract and accounted for in final settlement.

DOUGLAS STEWART,

Inspector of Penitentiaries.

Ottawa, Jan. 12th, 1899.

(6)

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers

A New Feature for '99

... In ...

"QUICK MEAL"

Gasoline and
Blue Flame

Oil Stoves

IS THE "WICKLESS"
BLUE FLAME OIL STOVE.

In them the oil is fed to the burner drop by drop, just as in the evaporating stoves. They can be quickly and easily cleaned, as the parts simply sit one on the other without being screwed. The small number made last year proved such a phenomenal success that they are now made in full lines.

We are Sole Canadian Agents for these famous "QUICK MEAL" Stoves.

Write us for full information. Their well-known reliability makes them splendid sellers.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

Henderson & Potts

NOVA SCOTIA PAINT AND VARNISH WORKS.

Manufacturers
of - - -

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., **MONTREAL**

PRICE OF STOVE GASOLINE ADVANCING.

THE vicissitudes that have marked the history of the gasoline stove industry during the last few years have been closely connected with the varying price of gasoline. The western manufacturers, when the industry started, showed great enterprise in educating the people to the use of this new fluid fuel, and against the odds of the insurance companies and popular prejudice they successfully pushed the sale of their stoves throughout the country. In 1895, relying upon the popular demand for stoves which created such a huge consumption of gasoline, The Standard Oil Company advanced prices very materially, and held them at the higher figures for some time. The result was seen almost immediately in the decline in the sale of gasoline stoves, and for a long while following the trade in these stoves was very seriously affected. Realizing that a mistake had been made The Standard Oil Company later proceeded to repair damages by lowering prices, spending large sums of money in demonstrating the advantages and safety of gasoline for a domestic fuel, and in all ways fostering the gasoline stove trade. It is claimed that they have spent something over \$100,000 in this missionary work, and the result of the advertising and the reasonable price for the fluid is seen in the splendid trade that has been done this year in gasoline stoves, the demand from some parts of the country having far exceeded anything that the manufacturers had before experienced.

In view of these facts in the history of the gasoline stove industry, there is a peculiar significance in the recent advances that have been made in the price of stove gasoline. On December 1 the price was 9½ cents in New York, January 3 it was advanced to 10½ cents per gallon, on January 9 to 11½ cents per gallon and on January 17 to 12 cents per gallon, a total advance of 2½ cents in two weeks. Furthermore, these are the New York prices for all quantities from one barrel upward, there being no reduction for large buyers. The Standard Oil representatives claim that the advance was brought about by the largely increased demand outstripping the production, resulting in a shortage in stocks of this particular petroleum product throughout the country. They also add in extenuation that the prices ruling last year were unremunerative in view of the expenses of the process of manufacturing. It is estimated that possibly the present prices may only be maintained until the shortage is made up.

The dealers and consumers, while admitting that there may be some truth in

these statements, are of the opinion that the present advance is excessive, and is probably due to the Standard Company's desire to take advantage of the present advancing tendency in all lines of goods. The puzzling thing about the advance is that it has been made by small amounts at short intervals. In view of the sorry experience following the former big advance in the price of gasoline, it would hardly seem reasonable to believe that the manufacturers would again risk an unwarranted advance in price. The \$100,000 or more which they spent in reawakening the demand is a pretty heavy item of expense, and one would suppose that they would think twice before repeating the experiment. There was once a goose that laid golden eggs, and was killed by its owner in the hope of getting the whole supply at once. The present case is not exactly parallel; the gasoline goose was merely knocked into insensibility, and was resuscitated later at considerable expense. —Metal Worker.

DON'T PAY TWICE OVER.

Business men should exercise more caution than they are prone to do as to the payment of their accounts, and not overlook the instructions of principals, or they may find themselves compelled to pay twice over, and that is not an agreeable experience. Such a case came before the City of London court recently, when a firm sued a customer for an account he had once paid to a traveler of the plaintiffs. The payment was admitted, but it was also admitted that the invoice contained the words, "All payments to be made direct to the firm." The traveler, however, who collected the money ran his pen through these words, and then the customer paid him. Well, he had to pay again. He had notice that should have put him on his guard to remit the account direct, but he took the risk, no doubt in perfect good faith. It may, of course, often be a close question whether the vendors would be bound by a payment to a traveler or not, but they have a right to protect themselves, of course, and to require payments to be made to themselves direct, and if the customer had notice of such a requirement he is justly bound to observe it. The only safe rule is to remit direct unless the traveler's authority is clear.—Hardwareman.

UNITED STATES WIRE IN CANADA.

There has been another advance of 5c. per 100 lb. in the price of United States wire for the Canadian market, the American Steel and Wire Co.'s quotations for carloads being \$2 for barb wire and \$1.75 for plain galvanized, f.o.b. Cleveland.

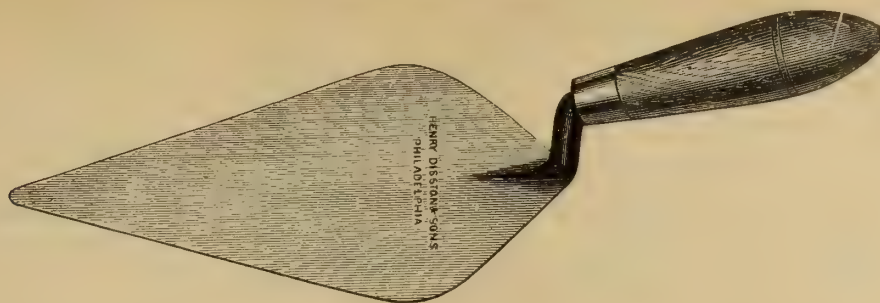
EXAGGERATED ADVERTISING.

It has been said that no one can be truly witty who does not exaggerate more or less and see things in a distorted light, says Stoves and Hardware Reporter. But that which may apply to humor cannot very well be applied to all things, though it is quite evident that there are many who advertise who labor under the delusion that the chief essential to successful advertising is a highly-developed capacity for exaggeration. Descriptive terms of the most extravagant kind are searched out and applied most indiscriminately to insignificant sales, articles or things connected with the store in a haphazard manner, which produces a most disproportionate and ridiculous effect. To be quite frank, it might be said that after a continual use of such extravagant terms they fail to have any effect whatever on the minds of the readers, just as the sensibilities become so blunted after reading so much sensational matter of every kind in the newspapers, they fail to be roused or touched by anything, however remarkable. This fact ought to be borne in mind more frequently by advertisers when setting forth the superior qualities of their goods in print. There can be a sensationalism even in advertising which fairly nauseates and disgusts people, Stores which pride themselves on selling cheap rather than good merchandise first set the pace for this highly objectionable practice into which more reputable stores have fallen in self-defense than any premeditated desire to follow a bad example. But it is a great mistake to believe that everyone is delighted and attracted by it. Sensible people would much prefer to read clear, concise, veracious descriptions of goods and prices than to see a string of superlative adjectives none of which really apply to the things which they are meant to describe. Exaggeration, therefore, is a kind of dishonesty which is not more profitable than any other form of deception. It is one of the things which do not deserve to prosper. The sooner merchants realize they are doing themselves absolute harm by such a proceeding the better it will be for them and a long suffering public.

PERSONAL MENTION.

Mr. Robert Munro, Montreal, managing-director of The Canada Paint Co., was in Toronto on Wednesday, returning home the same evening.

Mr. Walter H. Cottingham, general-manager of The Sherwin-Williams Co., has returned to Montreal for a short stay after visiting the Cleveland, Chicago, New York and Boston offices of this extensive company. He says everything is booming on the other side, and prospects never were so bright.



We charge you for quality only.
Our name is simply a guarantee.



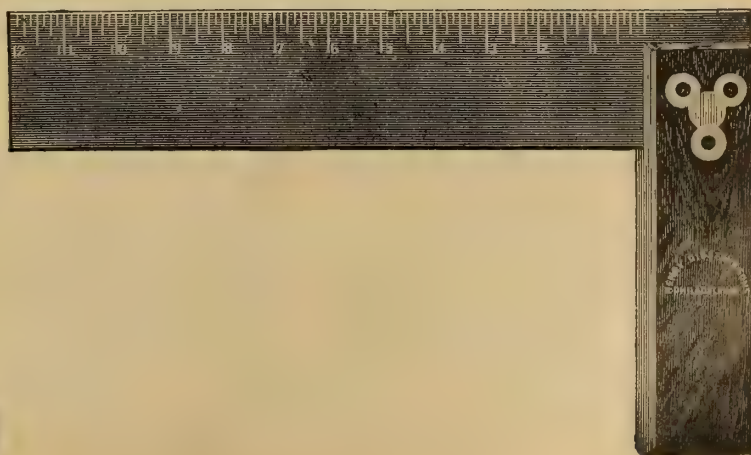
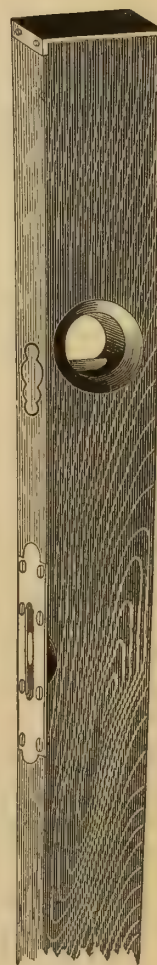
DISSTONS

Stamped on Any Article adds

50 per cent. to the value

But you will find that quality
for quality our prices are the
lowest

LEWIS BROS., 30 St. Sulpice St., MONTREAL.



BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

THE bailiff is in possession of the business, etc., of R. Clark & Co., general merchants, Proton Station, Ont.

Bates & Gillis, general merchants, Sydney, N.S., have assigned.

J. F. Trotter, general merchant, Grand Mere, Que., has assigned.

Valiquette & Larive, general merchants, Ste. Adele, Que., have assigned.

A. Gaumond, general merchant, St. Jean des Chailons, Que., has assigned.

Joseph Pountney, coal dealer, Woodstock, Ont., has assigned to J. H. Brown.

B. C. Dahl, general merchant, Erin, Ont., has compromised at 80c. on the dollar.

Allan G. Purdy, general merchant, Spring Hill, Ont., is offering 25c. on the dollar.

Alphonse Bernier, general merchant, etc., Cap St. Ignace, Que., has assigned.

Z. Harvey, general merchant, Hilarion, Que., has compromised at 38c. on the dollar.

The business of J. A. Marchand, general merchant, Fraserville, Que., has been liquidated.

J. H. Brodeur, general merchant, Varennes, Que., has filed consent of assignment.

J. R. Brillon has been appointed curator of A. J. Prefontaine, general merchant, Beloeil, Que.

Thomas Kelly, tinware, etc., Ottawa, has assigned to T. W. McDermott, and a meeting of his creditors will be held on Feb. 2.

The estate of Mrs. Wilson, general merchant, Midland, Ont., valued at \$3,000, has been closed by Richard Tew, assignee, Toronto, at 50c. on the dollar.

PARTNERSHIPS FORMED AND DISSOLVED.

Levasseur & Lachance, carriagemakers, Three Rivers, Que., have dissolved.

F. Gendreau & Fils, general merchants, Arthabaskaville, Que., have dissolved.

C. J. Thornton & Co., manufacturers of stoves, Fenelon Falls, Ont., have dissolved.

Byam & Ramsay, general merchants, Belfountain and Credit Forks, Ont., have dissolved.

Schultz & Stiefel, general merchants, Gretna and Altona, Man., have dissolved, Otto Schultz continuing.

Joseph Low and J. B. Turner have registered partnership under the style of J. B. Turner & Co., general merchants, Grand Mere, Que.

McLennan & Williams, general merchants, Treherne, Man., have dissolved, D. F. Williams selling out his interest to J. K. McLennan, who admits A. Steinhoff and F. Wilson under the style J. K. McLennan & Co.

SALES MADE AND PENDING.

The assets of John D. Thomson, general merchant, Buckingham, Que., have been sold.

The assets of Girard & Laforest, general merchants, Grand Mere, Que., have been sold.

The stock, book debts and store of Mrs. Simon Narovlansky, general merchant,

Moosomin, Man., are advertised for sale on January 31 by the assignee.

Alfred Owens, hardware merchant, Rapid City, Man., has sold out.

Edgar W. Wilson, blacksmith, Tilsonburg, Ont., is advertising his business for sale.

The business of the late Wm. Nicoll, blacksmith, Norwood, Ont., is advertised for sale.

Hagaman & Jull, general merchants, Ridgetown, Ont., are advertising their stock for sale by tender.

The stock of F. Lavoie, general merchant, St. Eugene, Que., has been sold at 56c. on the dollar.

Louis B. D'Entremont, general merchant, Pubnico, N.S., is advertising that he will sell out after March 15.

The stock of Alphonse Bernier, general merchant, Cap St. Ignace, Que., which was recently seized, is to be sold on the 30th inst.

The assets of J. W. Tremblay, general merchant, Les Eboulements, Que., are advertised for sale on the 27th inst.

CHANGES.

G. B. Shute is opening out as hardware dealer in Winnipeg.

The Lambton Oil Co., Limited, Sarnia, Ont., has been incorporated.

The Cannom Stove and Oven Co., London, Ont., has been incorporated.

H. T. Bragdon, hardware dealer, New Denver, B.C., is removing to Grand Forks.

Gregoire Dumont, general merchant, West Broughton, Que., is removing to St. Aubert.

H. Dunke & Co., general merchants, Elmira, Ont., have sold out to W. H. Otto & Co.

F. Dean Nixon & Co., general merchants, Dundalk, Ont., have sold out to J. D. Brown.

Elizabeth A. Calhoun, general merchant, Dundalk, Ont., has been succeeded by J. E. Richards.

P. Winram & Co., general merchants, Manitou and La Riviere, Man., have closed their La Riviere branch.

Eugene Gendreau has registered as proprietor of G. E. Gendreau, general merchant, Arthabaskaville, Que.

Stewart Patterson, dealer in agricultural implements, Rodney, Ont., has been succeeded by Ramstein Bros.

FIRÉS.

P. N. Pate, general merchant, O'Leary, P.E.I., has been burned out.

Mrs. Power, general merchant, Theodore, N.W.T., has been burned out.

The Hercules Culvert Co., manufacturers of cement goods, Hamilton, Ont., have been burned out.

The Pictou Charcoal and Iron Co., Limited, Bridgeville, N.S., have been burned out; loss estimated at \$10,000; insured.

D. C. Morson & Co., general merchants, Cardigan, P.E.I., have been burned out, and Jas. E. McDonald, general merchant, of the same place, has been burned out.

DEATHS.

Howard B. White, general merchant, Centreville, N.B., is dead.

Alphonse Lavoie, blacksmith, Longueuil, Que., is dead.

W. C. White, boilermaker, Montreal, is dead.

35 MERCHANTS BURNED OUT.

IN Bradstreet's report of the 24th inst. a synopsis of the losses caused by the recent fire in Bridgewater, N.S., is published. As will be seen from the following list, 35 merchants were burned out. The total loss to these was \$133,750; the insurance \$64,550, less than 50 per cent. of the loss.

The following merchants suffered: Patillo Bros., dry goods, loss \$22,000, insurance \$15,000; Mrs. R. Allan, hotel, loss \$300, no insurance; Miss K. Bailey, millinery, loss \$2,000, insurance, \$1,000; H. C. Barnaby & Son, grocers, loss \$5,000; insurance \$2,500; W. O. Bates, painter, etc., loss \$1,500, insurance \$200; George H. Burkett & Co., general store, loss \$6,000, insurance \$2,150; S. G. Cook, tinware, loss \$400, no insurance; C. J. Cragg & Co., printers, loss \$2,400, insurance \$800; Simeon Ernst, jeweller, loss \$3,500, insurance \$1,000; Mrs. Sylvester Forshay, hotel, loss \$4,000, insurance \$1,500; Freeman Bros., groceries and hardware, loss \$1,500, insurance \$750; J. H. Hall, printer and publisher, loss \$7,100, insurance \$2,800; E. C. Hebb, millinery, loss \$2,000, insurance \$500; J. W. Hebb, grocer, loss \$6,500, insurance, \$3,500; estate of R. A. Logan & Co., dry goods, etc., loss \$5,000, insurance \$3,000; Geo. McFadden, loss \$2,500, insurance \$900; David McKay, grocer and flour, loss \$15,000, insurance \$7,500; W. E. Manning, tinware, \$600, no insurance; John S. Morgan, tinsmith, loss \$2,100, insurance \$600; Clara Orwitz, clothing, etc., loss \$2,500, no insurance; Frank F. Owen, confectionery, etc., loss \$300, no insurance; Oxner & Duff, general merchants, etc., loss \$10,000, insurance \$7,500; J. Levi Oxner, printer, loss \$1,250, insurance \$750; H. M. Patillo, furniture dealer, loss \$1,000, insurance \$800; B. H. Porter, drugs and stationery, loss \$5,000, insurance \$1,000; Jas. T. Powers & Co., hardware, groceries, etc., loss \$13,000, insurance \$3,200; Elizabeth Quigley, general merchant, loss \$2,200, insurance \$1,000; T. B. Simonson, general merchant, loss \$800, no insurance; W. R. Stoddard & Co., general merchants, loss \$3,500, insurance \$2,400; C. G. T. Taylor, drugs, loss \$5,000, insurance \$1,500; Mrs. M. T. Taylor, stationery and confectionery, loss \$1,700, insurance \$700; Wile & Murdock, boots and shoes, loss \$5,000, insurance \$2,500; Robert Winters, grocer, loss \$200, no insurance; E. C. Young, restaurant, loss \$800, no insurance.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker
22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Gal-
vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

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ing authority on these trades, will be sent to
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Mills Co., Limited**

Manufacturers of

Refined Bar Iron
Railway Spikes
Pressed Spikes
Nails and Tacks
"Diamond" Brand Horse Shoes
ST. JOHN, N.B.



"JARDINE"

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

STEVENS RIFLES
THE FAVORITE

Send for our complete catalogue.

is made in three calibres

22, 25 and 32 Rim Fire

and is the best low-priced rifle made Highest quality of work.
Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
No. 18, Target Sights— " 11.50
No. 19, Lyman Sights— " 12.00

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
MASS., U.S.A.

Two in One

Your cus-
tomers save the expense and labor
of scraping and washing the walls,
when Alabastine is used—IT IS
APPLIED COAT OVER COAT. You save them time, money and
hard work and make a nice snug profit besides. You "kill
two birds with one stone"—you see, why don't you?

How sure you are of getting their good will—they won't
soon forget YOUR store. Anyone can apply it (16 beautiful
tints and white).

An absolutely permanent and sanitary
water color wall coating. Ready for use
with cold water. Never rubs off or scales.
Hardens with age.

**Church's
Alabastine**

THE ALABASTINE CO'Y, Limited, Paris, Ont.



TRADE MARK.

Manufacturers of

Cotton, Jute, Hemp and Flax
Twines and Cordage
Mill Banding and Driving Ropes
Chalk and Fishing Lines
Seine Twine, Hammocks, Tennis
Cricket and Fly Nets
Cotton Rope and Clothes Lines
Plough Lines, etc.

HUTCHISON, SHURLY & DERRETT

1078 BLOOR STREET WEST, TORONTO.

HEATING AND PLUMBING

BACK VENTING AND ITS BENEFITS.

WHEN we, who were plumbers twenty years ago, consider the changes that have taken place in the plumbing industry during that period, we realize that great and beneficial results are being enjoyed by the present generation, says a writer in Plumber and Decorator.

When, a decade ago, we put in pan closets, with bathroom fixtures trapped into the closet trap under the floor, and the soil-pipe ended with the bathroom, we wondered that no thought of sewer air harming the inmates entered our mind.

When the Jennings & Zane plunger water-closets (with their pools of water and consequent filling of the soil-pipe each time they were discharged), commenced to be generally used, complaints of sewer air entering the dwellings were loud and frequent.

Immediately investigations were made, and, in the year 1881, with the view to insure greater security to the trap seal, the method of supplying air to the soil and waste-pipe by a line of pipe from the top of the house to the trap on the sewer side was brought into use. This method is variously known in the plumbing trade as back venting, back airing, or reventing.

The necessity of ventilating all drains, soil and waste-pipes in a building is evident when we consider that no matter how well these pipes are cleansed by flushes of water passing through them, there will always be deposits of solid matter upon their internal surfaces. These deposits decompose and evolve gases which are dangerous to a greater or less extent, according to their composition.

The specific gravity of most of the gases evolved is less than that of air: hence, if the top of the pipe stacks are closed, that volume of the gases which is not directly mixed with the air already contained in the system rises to the highest points and accumulates there. Its effect at these points is chiefly to corrode the metal of which the pipes are made. Lead branch pipes, in particular, are very liable to corrosion by the continual action of sewer gas, and numerous minute pinholes are formed by the chemical change caused by the action of the gases upon the lead.

In order, then, to convey these gases from the pipe system and allow them to discharge into the atmosphere, the vertical stacks are continued full size or larger up through the roof of the building, where they terminate

with open ends; consequently, when the air or gases in the drainage system are lighter than an equal volume of the outer atmosphere, they will flow up through the system and discharge into the atmosphere above the roof.

The principal use of the branch vent-pipe, however, is to prevent the siphonage of the traps when water flows through the main stack or soil-pipe. If the water should be siphoned out of a trap, an open passage would be made for the drain air to freely enter the building. An air-pipe of sufficient area not only prevents the disturbance of the seal of a trap, in connection with a soil-pipe, from back pressure, but it also prevents a disturbance of the seals of the traps by giving air to each branch pipe, and freeing the traps from the action of siphonage or loss by momentum.

Some may say that the chief difficulty with a back vent-pipe is to induce the current of air to move in the right direction—that is, with flow of water at time of discharging a fixture. When a flow commences through a trap it gradually acquires a velocity that draws air with it, and unless vented loss of seal by momentum is the result. The velocity of downward current through the vent-pipe is equal to the velocity of water passing the vent opening; in point of fact, the greater the velocity of waste matter the more air will be drawn with it. As this air current is being constantly drawn into the side of pipe it breaks the solid column of water and thus prevents siphonage, and, when the fixture is at rest, back pressure on the trap is prevented.

As experience has demonstrated that the best way known at present to preserve the trap seal is to admit air on the sewer side of the same, therefore the back vent-pipe is a necessity.

Plumbing is a progressive industry, and

as such, no rule, law or method can be established to be depended upon to a certainty in every case. Those doing the work not knowing the why, can not intelligently explain the wherefore.

From such instances, when the letter of the law cannot be lived up to, I think the opinion is formed that back-venting is not a useful necessity. It is not intended as an absolute cure but as an additional safeguard for preventing siphonage and back pressure, and when intelligently installed it answers the purpose for which it is intended.

Branch vent-pipes have a threefold use, and are beneficial:

First, to prevent the branch soil-pipe acting as a long leg of a siphon and drawing the water out of the trap.

Second, to relieve any compression when water is falling down the vertical soil-pipe.

Third, to prevent an accumulation of gases in that part of the pipe which acts as a corroding agent on the metals used for the pipe.

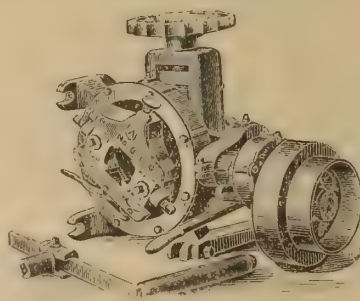
With the free circulation of air through all parts of the drainage system disease is prevented, thus prolonging life and being conducive to healthful conditions in the home. Security against back pressure and siphonage are the chief advantages, and these are unquestionably attained by the method described.

TORONTO BUILDING PERMITS.

Permits have been granted in Toronto to Caleb Evans, for a two-storey and attic dwelling at 209 St. George street, to cost \$7,000; to A. Burns, for a four-storey furniture factory at 5 and 7 Buchanan street, to cost \$4,000, and to The Toronto Paint Co., for a two-storey paint factory on West Atlantic avenue, near Liberty street, to cost \$1,500.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)



No. 0 Threading Machine, with power attachment.

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

BUSINESS QUIET; PROSPECTS BRIGHT.

JANUARY is generally the quiet month with plumbers, and this year is no exception to the rule in Toronto. This fact, however, is not causing much anxiety among the masters here, for the reason that there is a well grounded and defined opinion that the spring will bring renewed activity, that next summer will prove even better than last year in the amount of work it provides for all trades affected by building operations.

The architects are busy preparing plans. It is expected that the larger plumbing firms will have their hands full figuring on tenders and in other preparations for the activity which is likely to manifest itself early in the spring.

PLUMBING AND HEATING CONTRACTS.

Guest & Co., Toronto, have the contract for plumbing and gasfitting in a house at 199 Sherbourne street, Toronto.

BLOW OUT THE GAS.

This operation has always been considered a rather dangerous one, but it will be dangerous no longer if the latest invention in gas-burners should prove a success. According to a description furnished by the patent bureau of S. Fisher, Vienna, this burner is constructed of a metal which possesses the ability to expand in an especially high degree. The gas is lighted in the usual manner, by turning the key, but only a small quantity of gas can escape at the beginning. The metal of the burner, however, expands quickly, and, by the expansion, a valve is opened automatically, which permits a full outflow of the gas. By

turning the key, the flame can be put out as usual, but, if blown out, the metal contracts, as a result of cooling, and the valve is closed so that no more gas can escape.—American Manufacturer.

SUIT AGAINST A PLUMBER.

Judge Davidson has allowed Dame Julie Lavigne Dit Poudrette, of Montreal, damages to the extent of \$218, in her suit against Joseph Galarneau, plumber. She resided at 108 Beaudry street, in the upper tenement, when the defendant was called in to repair some pipes downstairs. His employes brought in a gasoline stove to do their work, as well as a supply of gasoline in a canister. An explosion ensued, and the fire was started which caused the damages above mentioned. The court found that defendant had been guilty of negligence in the matter in not being more careful in the handling of such inflammable matter as gasoline.

AMERICAN SCREW COMPANY.

Announcement is made that the American Screw Company have disposed of their Canadian plant, which, according to their last annual report, was established to protect the home business against threatened reduction of United States duties upon screws, while the duties upon raw materials were retained or advanced. The matter of the United States tariff being now settled, and having disposed of their English plant at a good price, the company have thought it best to confine their manufacture hereafter only to this country. The result of the business carried on by them in Canada was very satisfactory as a whole, though for some years it was done at a loss. The

recent change in the policy of the Dominion Government with respect to duties bears, however, rather heavily upon manufacturing industries there, as the country is small and the market limited. With the sale of the English plant the company have been put in a position to remove the indebtedness of the three companies formerly under their control, which would, ordinarily, have been provided for from earnings, but, owing to the depressed condition of the screw industry for some years, due to overproduction, business has been unprofitable. The course of things in this line is indicated by the statement that the price of an average gross of screws has declined during the past 25 years from about 63c. to 7½c. We understand that there is a possibility that, under existing circumstances, the company may undertake a reorganization as to capital, having recently reduced book valuation of property to the extent of \$2,000,000 below cost price.—Iron Age.

PLUMBING AND HEATING NOTES.

J. B. Fitzsimons, president of the Toronto Master Plumbers' Association, has just recovered from a serious attack of "la grippe."

The HEINTZ Steam Saver.

Will interest those who use steam for any purpose. Power or heating steam costs money —The Heintz saves it. Send for Booklet E.

THE
James Morrison Brass Mfg. Co.
Limited
Toronto

Steam
Specialties.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

Eastern Townships Milk

SEAMLESS RETINNED.



"Erators"

Strong and neatly made of heavy tin, and retinned.
Easily taken apart to clean.

The THOS. DAVIDSON MFG. CO., Limited
MONTREAL.

SEWALL & DAY CORDAGE CO.

Established 1835.
BOSTON, MASS.

Binder Twine.



This Brand is a guarantee of the Best
Binder Twine made.

T. BURROWES ROSS

Canadian Representative,

417 Board of Trade Building,

--- **MONTREAL**



**Write
for Prices.**

SCOTCH PIG IRON TRADE.

The statistics of the Scotch Ironmasters' Association were issued recently. The production of pig iron amounted to 1,190,264 tons, showing an increase of 2,627 tons over that of the preceding year. The consumption of pig iron in foundries and in malleable iron and steel works was very large, amounting to 972,000 tons, which is 23,281 more than in 1897. The foreign exports of pig iron show a decrease of 10,940 tons; but, this is more than made up for by the increased deliveries in Great Britain, which are 20,478 tons more than in the preceding year. There is a very large reduction in stocks, which are 74,008 tons less than at the end of last year. The decrease in makers' private stocks of pig iron amounts to no less than 53,026 tons, and the whole in their possession at present is only 73,838 tons. In October, 1896, the Cleveland Ironmasters' Association discontinued the issue of their monthly statistics, and since then the only official statement of the make of pig iron in Cleveland is that included in the mineral statistics issued annually by the Government.

The production of iron in the Cleveland district in 1895 was 2,916,439 tons, it rose to 3,211,926 tons in 1896, and declined to 3,197,641 tons in 1897. Probably the make of 1898 was a few thousand tons less than that of 1897. This may be assumed from the number of furnaces in blast, and the general circumstances surrounding their working. The shipments last year were 1,113,312 tons, 136,000 tons less than in 1897. The stock of pig iron in the public stores at the end of the year was 50,000 tons more than on Dec. 31, 1897, but it is merely a change over from makers' yards, brought about by the exigencies of the warrant market. The amount of unsold iron in the district is undoubtedly less than it was a year ago.—Iron and Steel Trades Journal.

BAR IRON AND THE BAR FORENSIC.

Amongst the stories which have been going the round of the press lately, concerning members of the legal profession, is one with a sufficiently ferric flavor about it to warrant reproducing in this column: "An eminent advocate (now dead), who couldn't say 'heaven' to get into it, was cross-examining a French witness in a patent case, through the medium of an interpreter. 'You take the bar of iron,' said the learned counsel, 'and place it in the furnace, do you not?' 'Oui,' replied the witness, when the interpreter had translated the question for him. 'And then you 'eat it?' asked the eminent advocate. 'Après, vous le mangez,' from the interpreter, the all-too-literal translation causing, as might be expected, the crowded court-room to be convulsed with laughter." — "Vulcan," in Ironmonger.

55 Years' Experience.

WARNOCK'S Axes and Edge Tools have been on the Canadian market since 1844. They are unequalled in **QUALITY AND FINISH**. Always specify Warnock's Tools when buying.

James Warnock & Co., Galt, Ont.



"Experience is a Wise Teacher."

FARMER JONES.—"Say, Brown! I guess your head was level when you bought them Egg Crates after all. I'm satisfied."

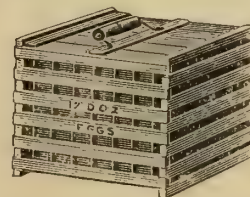
FARMER BROWN.—"I thought you would come to it."

Specially intended for Farmers' use. None can afford to be without them.

COST LITTLE. SAVE MUCH.

With fillers removed make the handiest kind of a carrier for Fruit, Vegetables, etc.

Money wisely spent is returned many-fold. Get the best.

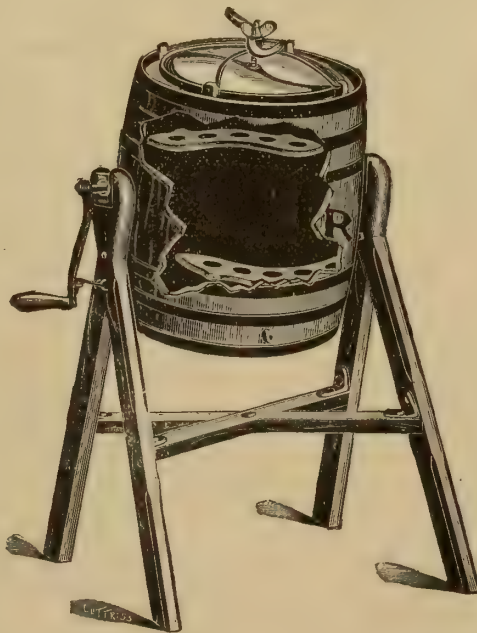


THE HUMPTY DUMPTY FOLDING EGG CRATES

No { Broken Eggs
Disputed Count
Time Wasted

The { Easiest
Cheapest
Quickest
Safest
Best } way to store
and market eggs.

Send for Circulars and Prices.



The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.

SEND FOR PRICES

Made Exclusively by

The DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA.

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO. - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS.

January 27, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 24½
Straits	0 24

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X.	6 25
I.X.X.	7 50

J. R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X.	4 25
I.X.X.	5 00
I.A.X.	5 75
D.C., 12½x17	3 00
D.X.	3 75
D.X.X.	5 75

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.	
Bessemer Steel—	
I.C., usual sizes	3 00
I.C., special sizes, base.	3 15
20x28.	6 00

Charcoal Plates—Terne.	
Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 00
I.X., Terne Tin	7 50
I.C., Orion	6 00
I.X., Orion	7 25

Charcoal Tin Boiler Plates.	
Cookley Grade—	
X X., 14x56, 50 sheet bxs	Per lb.
" 14x60 "	0 05½
" 14x65 "	0 06

Tinned Sheets.	
72x30 up to 24 gauge.	0 05½
" 26 "	0 06½
" 28 "	0 07½

Iron and Steel.	
Common Bar, per 100 lbs	1 45
" from factory "	1 35
Refined "	1 60
Horse Shoe "	1 65
Band "	1 75
Hoop "	4 25
Swedish "	4 00
Sleigh Shoe Steel " base	1 75
Tire Steel "	1 85
Machinery "	1 85
Cast Steel, per lb.	0 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb.	0 10½
Tank Plates, 1-5 and thicker.	2 00
Boiler Rivets	4 50

Boiler Tubes.	
1½ inch	0 06½
2 "	0 07½
2½ "	0 09½
	0 11

Steel Boiler Plate.	
3-16 inch	2 00
	1 90

¾ inch and thicker..... 1 75

Sheet Iron.

16 gauge and heavier	2 50
18 to 20 gauge	2 25
22 to 24 "	2 30
26 "	2 40
28 "	2 50

Canada Plates.

All dull, 52 sheets	2 25
Half polished	2 35
All bright	2 85

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$2.31 to \$3.40; ½ inch, \$2.31 to \$2.49; ¾ inch, \$2.80 to \$2.85; 1 inch, \$1.90 to \$3.95; 1½ inch, \$5.15 to \$5.20; 2 inch, \$6.75; 2½ inch, \$9.10; Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80; 1 inch, \$5.75; 1½ inch, \$9.15; 2 inch, \$11.75; 2½ inch, \$16.00. Cast soil, 2, 3, 4 and 5 inch 60, 10 and 5 p. c.	
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Galvanized Iron.

	Comet.	Amer.	Queen's Head.
16 gauge	3 15	3 75	
18 to 24 gauge	3 25	3 30	4 00
26 "	3 50	3 55	4 25
28 "	3 75	3 90	4 50

Chain.

Proof Coil, 3-16 in., per 100 lbs	6 25
" ¼ "	4 65
" 5-16 "	3 75
" ¾ "	3 25
" 7-16 "	2 85
" 1½ "	2 75
" 2 "	2 75
" 2½ "	2 63
Trace, per doz. pairs	3 60
Jack chain, iron, single, per doz. yards.	0 13
Jack chain, double, per doz. yards	0 15
Jack chain, brass, single, per doz. yards.	20 10

Copper.

English B. S., ton lots	0 15
Lake Superior	0 15½
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in. round and square	0 20
1 to 2 inches	0 19½
NOTE.—Complete, lengths about 15 feet from 18½ to 19 cents a pound.	

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60	0 18
Untinned, 14 oz., and light, 16 oz., irregular sizes.	0 18
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.	
Planished and tinned, 14x48 and 14x60	0 25
Braziers. (In sheets.)	
4x6 ft. 25 to 30 lbs. ea., per lb.	0 19
" 35 to 45 " "	0 18½
" 50-lb. and above, " "	0 18
Boiler and T. K. Pitts.	
Plain Tinned, per lb.	0 21
Spun, per lb.	0 25

Wire.

Copper and Brass Wire, net list.	
Brass.	
Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.	
Sheets, hard-rolled, 2x4	18 00
Tubing, base, per lb.	0 21

Wire.

Copper and Brass Wire, net list.	
Brass.	
Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.	
Sheets, hard-rolled, 2x4	18 00
Tubing, base, per lb.	0 21

Wire.

Copper and Brass Wire, net list.	
Brass.	
Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.	
Sheets, hard-rolled, 2x4	18 00
Tubing, base, per lb.	0 21

Wire.

Copper and Brass Wire, net list.	
Brass.	
Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.	
Sheets, hard-rolled, 2x4	18 00
Tubing, base, per lb.	0 21

Wire.

Copper and Brass Wire, net list.	
Brass.	
Roll and Sheet, 14 to 30 gauge, 25 to 27½ p. c. off list.	
Sheets, hard-rolled, 2x4	18 00
Tubing, base, per lb.	0 21

Foreign, per lb	0 05½
Domestic "	0 04½

Zinc Spelter.

5 cwt. casks	0 07½
Part casks	0 07½

Lead.

Imported Pig, per lb	4 00
Domestic, per lb	0 03¾
Bar, 1 lb.	0 05
Sheets, 2½ lbs. sq. ft., by roll.	0 05½
Sheets, 3 to 6 lbs., per sq. ft., by roll.	0 04¾

NOTE.—Cut sheets ½ cent per lb. extra. Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 25 per cent. discount. NOTE.—Cut lengths, net price, waste pipe. 8-ft. lengths, lists at 7½ cents.

Solder.

Bar half-and-half	0 15½
Refined	0 14½
Wiping	0 13½

NOTE.—Prices of this graded according to quality. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb	0 10
Other makes, per lb.	0 09

White Lead.

Pure, Assoc. guarantee, ground in oil, 25 lb. irons	5 75
No. 1 do	5 37½
No. 2 do	5 00
No. 3 do	4 25
No. 4 do	4 25
Robertson's Chemically Pure	5 75
Munro's Select Flake White	6 00
Elephant and Decorators' Pure	5 75
Brandram's B. B. Genuine	7 75
" No. 1	7 00
James genuine	6 95
" No. 1	6 45

White Zinc Paint.

Pure White Zinc	0 08
No. 1	0 08
No. 2	0 06

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
" Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt	1 35
Yellow Ochre (J.F.L.S.), bbls. per cwt	2 75
Yellow Ochre (Royal), per cwt	1 10
Brussels Ochre	2 00
Venetian Red (best), per cwt.	1 80
English Oxides, per cwt.	3 00
American Oxides, per cwt.	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
Umber, "	0 10
do. aw	0 09

Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03¾

Ultra marine Blue in 28-lb. boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1-lb. tins	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 04½
100-lb. lots, do. per lb.	0 05

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 85
Bulk in bbls., per 100	1 65
Bulk in less quantities	1 80
25-lb. tins, 4 in case	2 05
12½-lb. tins, 8 in case	2 30

Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do.	2 50
Body Varnish	4 50
Furniture Varnish	0 85
Extra do.	0 90
Denar Varnish	1 60
Hard Oil Finish	1 40
Orange Shellac Varnish	2 00
White Shellac	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.

Raw, per gal. net.	0 49
Boiled, per gal. net.	0 62
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net.	0 65
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots, do.	0 11½

Cod Oil, Etc.

Cod Oil, per gal.	0 50
Pure Olive	1 20
" Neatsfoot	90

Glue.

(In bbls.)	
Common	0 08½
French Medal	0 12
Cabinet, sheet	0 11
White, extra	0 16
Gelstine	0 16
Strip	0 16
Coopers	0 19
Al clear	0 09
Liquid Glue—F. LePage's, discount 20 to 25 per cent off list; Munn's, discount 25 to 30 per cent. off list.	

HARDWARE.

Ammunition.

Cartridges.	
B. B. Caps. Dom., 50 and 5 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. Amer.	

Central Fire Cartridges, pistol sizes, Dom 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom. 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in ½ lb. bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 20
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Per lb. 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 09½ 0 10

AUGERS.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

AWLS.
 Sewing, per gross, 0 65 1 59
 Pegging, " 0 65 1 25
 Brad, " 0 85 1 60
 " nanded, per gross, 3 60 30
 Saddler's, per gross, 0 45 1 60

AWL HAFTS.
 Patent Peg, per gross, 7 25 8
 " Sewing, per gross, 7 25 8

AWL AND TOOL SETS.
 Millar's Falls, per doz., 2 80 3 30

AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, 11 00 13 00
 Bench Axes, 40 and 10 p.c.

AXLE GREASE.
 Per gross, 6 00 13 00

BATH TUBS.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel, list, 20 per cent. discount off revised list.
 Box extra

ANTI-FRICTION METAL.
 "Tandem" A, per lb., 0 19
 " B, " 0 16
 " C, " 0 10½
 " Monarch " 1, " 0 21
 " 2, " 0 15
 " 3, " 0 10
 " Canadian " 4, " 0 08½
 Magnolia Anti-Friction Metal, per lb., 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

BELLS.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

DOOR.
 Gongs Sargent's, 5 50 8 00
 " Peterboro', discount 50 per cent.

AMERICAN MAKE, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.
 American, each, 1 25 3 00

HOUSE.
 American, per lb., 0 35 0 40

BELLOWS.
 " per doz., 3 35 4 75
 Monarch's, per doz., 7 50 10 00
 Blacksmith's, discount 60 per cent.

BELTING.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

BENCH STOPS.
 Per doz., 5 00 6 00

BITS.
 Auger.
 Gilmour's, discount 65 and 5 per cent.
 Excelsior, discount 60 per cent.

ROCKFORD COMMON, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.
 Car.

Gilmour's, 47½ to 50 per cent.

EXPANSIVE
 Clark's 40 per cent.
 Excelsior, 10 per cent.
 Gimlet.
 Clark's, per doz., 0 65 0 90
 Diamond, Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

BLIND ROLLERS.
 Annex, per doz., 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 1 00

BLIND AND BED STAPLES.
 All sizes, per lb., 7½ 0 12

BOLTS.
 Carriage, dis., 60 and 10 to 70 p.c.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Elevator, dis., 35 to 40 per cent.
 Machine, dis., 70 p.c.
 Coach Screws, dis. 70 and 10 p.c.
 Plough bolts, 60 p.c.

BORING MACHINES.
 Complete, with augers, each, 5 00 7 50

BRACES.
 Barber's, 6 00 7 75
 Barber's Ratchet, 10 00 11 00
 Farmers, 2 00 2 75
 Millar's Falls, 15 50 29 00

BRACKETS.
 Shelf.
 Japanned Canadian, per doz., 0 50 3 40
 Berlin Bronze Canadian, 0 85 3 20

BROILERS.
 Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, 6 00
 Henis, No. 9, 7 00
 Queen City, " 7 50 0 00

BUTCHERS' CLEAVERS.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

BUILDING PAPER, ETC.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

BUTTS.
 Brass.
 Wrought Brass, dis., 17½ p.c. revised list.

CAST IRON.
 Loose Pin, dis. 70 per cent.

WROUGHT STEEL.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

CAN OPENERS.
 Acme, per gross, 9 00 10 00
 Jardine Scissors, per doz., 3 75 4 50

CARD.
 Horse, per doz., 0 60 1 00

CARPET STRETCHERS.
 American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

CARPET SWEEPERS.
 Bissell, per doz., 22 50
 World, " 21 75
 Daisy, " 24 00
 Star, " 18 00
 Crown Jewel, per doz., 29 00
 Grand Rapids, " 24 00 33 00

CARTRIDGES.
 (See Ammunition.)

CASTORS.
 Red new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

CATTLE LEADERS.
 Nos 31 and 32, per gross, 8 50 50

CEMENT.
 Canadian, Portland, 2 50
 English, " 2 85
 Belgium, " 2 75
 Canadian hydraulic, 1 20

Figures are for barrel lots.

CHALK.
 Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt., 0 60 0 65
 Red, " 0 05 0 06
 Crayon, per gross, 0 14 0 18

CHISELS.
 Socket, Framing and Firmer.
 American, dis. 75 per cent.
 Canadian, dis. 40 and 5 per cent.
 Tanged firmer, per doz., 0 85 4 00

CHURNS.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.75—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock,
 Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

CLAMPS.
 Indds', dis. 20 per cent.
 Stearn's, per doz., 3 00 10 00

CLIPS.
 Axle dis. 65 per cent.

CLOSETS.
 Washout, plain, 3 25
 " embossed, 3 50

COFFEE MILLS.
 Box, 3 60 13 00
 Side, 3 60 4 00
 Enterprise, No. 6, 1 35
 No. 2, 70

COMPASSES, DIVIDERS, ETC.
 American, dis. 62½ to 65 per cent.

CRADLES, GRAIN.
 Canadian, dis. 20 per cent.

DIES.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 25 per cent.

DOOR SPRINGS.
 Torrey's Rod, per doz., (15 p.c.), 2 00
 Coil, per doz., 0 88 1 60
 English per doz., 2 00 4 00

DRAW KNIVES.
 American, dis. 70 and 10 per cent.
 Canadian, dis. 25, 50 and 10 per cent.

DRILLS.
 Hand and Breast
 Millar Falls, per doz., 16 00 51 50
 P. S. & W., dis. 40 per cent.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz., 85 1 70

FAWCETS.
 Cork Lined, per doz., 0 30 0 35
 Wine, per doz., 1 30 3 25
 Star, 2 80 3 90
 Fenn's Corkstops, No. 2, per dozen, 1 70
 Petroleum, per doz., 4 50 6 50

FILES.
 Globe File Mfg. Co.'s dis., files, 50 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.

FLUTING MACHINES.
 Each, 0 60 2 00

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, 10 and 5 p.c. revised list.

FREEZERS.
 Ice Cream.
 Gem from \$1.25 to \$7 net.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

GLASS.
 Window.
 Box Price.

GLUE POTS.
 Tinned, each, 0 30
 Enamelled each, 0 55

GRINDSTONE FIXTURES.
 Per doz., 3 60 4 00

HALTERS.
 Rope, ¾ per gross, 8 25 8 5
 " ½, " 9 25 9 50
 " ¼, " 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 25
 " 1½ in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

HANDS.
 Tack.
 Magnetic per doz., 1 10 1 20

SLEDGE.
 Canadian, per lb., 0 07½ 0 08½

BALL PEAN.
 English and Can., per lb., 0 22 25

HANDLES.
 Axe, per doz., net, 1 50 2 00
 Store door, per doz., 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

CHISEL.
 Firmer, per gross, 3 00 4 50
 Socket Firmer, per gross, 3 25 8 00
 Socket Framing, per gross, 3 75 5 00

FORK.
 C. & B., dis. 45 per cent. rev. list.

HOE.
 C. & B., dis. 45 per cent. rev. list.

SAW.
 American, per doz., 1 00 25

PLANE.
 American, per gross, 3 1

HAMMER AND HATCHET.
 Canadian, 45 per cent.

CROSS-CUT SAW.
 Canadian, per pair, 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair, 0 40 50
 Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p.c.

Light T and strap, 70 and 10 p.c.
 Heavy, per lb., 0 03½ 0 04½
 Screw hook and hinge, 3 15
 6 to 12 in., per 100 lbs., 2 35
 14 in. up, per 100 lbs., 2 35

Per doz. set
 Screw, Eureka, 1 13 1 80
 Gate, Clark's, 1 50 2 20
 " Shepard's, dis. 50 to 60 per cent.

Per gro. pair
 Spring, 9 50
 " Shepard's Samson, 1 20

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.
 Cast Iron.
 Bird Cage, per doz., 0 50 1 10
 Clothes Line, per doz., 0 27 0 63
 Harness, per doz., 0 72 0 88
 Hat and Coat, per gross, 1 00 3 00
 Chandelier, per doz., 0 50 1 00

WROUGHT IRON.
 Wrought Hooks and Staples, Can., dis. 47½ per cent.

WIRE.
 Hat and coat, dis. 60 to 60 and 10 p.c.
 Belt, per 1,000, 0 60 0 70
 Screw, bright, dis. 65 and 10 per cent.

HORSE NAILS.
 "C" brand, 50 p.c. dis. }
 "M" brand 50 p.c. } Oval head.
 P. B., dis. 50 p.c.
 Acadian, 50 and 20 p.c., countersunk head

HORSE SHOES.
 Iron Shoes. F.O.B. Montreal Toronto
 Light, medium, and heavy, 3 15 3 25
 Snow shoes, 3 40 3 50

STEEL SHOES.
 Light, all sizes, 3 35 3 45
 Extra light, 4 50 4 60
 Toe weight (steel), 5 50 5 60

*Also Hamilton, London, Guelph, St. John. Halifax.

ICE PICKS.
 Star, per doz., 3 00 3 25

KETTLES.
 Brass spun, 7½ p.c. dis. off new list.
 Copper, per lb., 0 30 35
 American, 60 and 10 to 65 and 5 p.c.

KEYS.
 Lock, Can., dis. 50 p.c.
 Cabinet, trunk, and padlock, Am. per gross, 1 60

KNOBES.
 Door, japanned and N.P., per doz., 0 90
 Bronze, Berlin, per doz., 2 75 3 25
 Bronze Genuine, " 6 00 9 00
 Shutter, porcelain, F. & L. screw per gross, 1 30 4 00

KNIVES.
 Claus, bread, cake, and paring knives, \$7.00
 doz. sets net. to 10 per cent.
 Christie, bread, cake, and paring knives, \$7.00
 doz. sets, with 10 p.c. off.
 Hay knives, spear point, Lor T handle, 60
 10 and 5 per cent.
 Lightning, per doz., 6 50 8 40
 Heath's, \$7.75 net.

LADLES.
 Melting, per doz., 1 70 4 50

LEMON SQUEEZERS.
 Porcelain lined, per doz., 2 20 5 60
 Galvanized, " 1 87 3 85
 King, wood, " 2 75 2 90

King, glass,	4 00	4 50
All glass	1 20	1 30
LINES.		
Fish, per gross.....	1 05	2 50
Chalk	1 90	7 40
LOOKS.		
Canadian, dis. 50 p.c.		
Russell & Erwin, per oz.....	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		
Padlock.		
English and Am., per doz....	50	6 00
Scandinavian,	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.		
Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		
MALLETS.		
Tinsmiths', per doz.....	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.....	3 85	5 00
Caulking, each	1 60	2 00
MATTOCKS.		
Canadian, per doz.....	8 50	10 00
American, 60 and 10 p.c. off list.		
MEAT CUTTERS.		
American, dis. 30 to 32½ p.c.		
German, 15 per cent.		
MINCING KNIVES.		
American, per doz.....	0 42	2 35
MOLASSES GATES.		
Stebbin's Patent, dis. per cent., 77½ per cent.		

NAILS		
Quotations are:	Cut.	Wire.
2d. and 3d.....	\$2 75	\$3 00
3d.....	2 40	2 65
4 and 5d.....	2 15	2 40
6 and 7d.....	2 05	2 30
8 and 9d.....	1 90	2 15
10 and 12d.....	1 85	2 10
16 and 20d.....	1 80	2 05
30, 40, 50 and 60d. (base).....	1 75	2 00
Steel Cut Nails 10c. extra.		
Brads and finishing nails, special sizes, 80 p.c. from new list.		

NAIL PULLERS.		
German and American.....	1 85	3 50
NAIL SETS.		
Square, round, and octagon, per gross	3 38	4 00
Diamond	12 00	15 00
NETTING.		
Poultry, 67½ per cent. for imported, 55 per cent. for McMullen's.		
OIL.		
Canada refined oil (Toronto).....	0 14	
Carbon safety	0 16½	
American w. w.	0 17½	
Pratt's Astral.....	0 17	

OILERS.		
McClary's Model galvan. oil can, with pump, 5 gal., per doz.....	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.....	1 25	3 50
Brass,	1 50	3 50
Malleable, dis. 25 per cent.		
PAIS.		
Galvanized, per doz.....	1 85	3 00
PENCILS.		
Dixon's, per gross.....	1 00	4 25
Carpenter	2 25	3 60
PICKS.		
Per doz	6 00	9 00
PICTURE NAILS.		
Porcelain head, per gross.....	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY		
Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½ to 4 in. R. & L.	100 00	
No. 56 Hand Machine, range 2½ to 6 in. R. & L.	175 00	
PLANES.		
Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 37½ per cent.		
Bailey's Victor, 25 per cent.		
PLANE IRONS.		
English, per doz.....	2 00	5
PLIERS AND NIPPERS.		
Button's Genuine, per doz pairs, dis. 37½ to 40 p.c.		
Button's Imitation, per doz....	5 00	9 00
German, per doz.....	0 60	2 60
PLUMBS AND LEVELS.		
S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
POPPERS.		
Corn, square, per doz.....	1 35	2 00
PRUNING SHEARS.		
Per doz.....	4 00	5 50

PULLEYS.		
Hothouse, per doz.....	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.....	0 35	2 50
PUMPS.		
Canadian cistern.....	1 40	2 25
Canadian pitcher spout.....	1 15	2 00

PUNCHES.		
Saddlers', per doz.....	1 00	1 85
Conductors',	9 00	15 00
Tinners' solid, per set.....	0 00	0 72
" hollow, per inch.....	0 00	1 00
RAIL.		
Barn door, per foot.....	0 02½	0 02½
Sliding door,	0 03½	0 03½
Lanes,	0 02½	

RAKES.		
Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.		
New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Toronto File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.		
Geo. Butler & Co.'s, per doz..	8 00	18 00
Bokers',	7 50	11 00
Wade & Butcher's,	3 60	10 00
Arbenz's,	9 00	18
Theile & Quack's,	7 00	12

RAZOR STROPS.		
Currier's, per doz.....	1 25	3 60
RIVETS AND BURRS.		
Carriage, Section, Wagon Box Rivets, etc. (Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and p.c.		
Copper Rivets & Burrs, 40 p.c. dis. in ½ lb. boxes and cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.		
Canadian, dis. 35 to 37½ per cent.		
ROPE, ETC.		
7-16 in. and larger, per lb. 9½	Sisal.	Manilla
¾ in.	9½	10½
½ and 5-16 in.	10½	11
Cotton	13	
Russia Deep Sea	14½	
Jute	6¾	7½
Lath Yarn	8¾	
New Zealand Rope	1½	

RULES.		
Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		
SAD IRONS.		
Mrs. Potts, per set.....	0 62½	1 00
" N.P., per set.....		90
SAD HEATERS.		
Dome, Shepard's, per doz....	4 75	5 00
SAND AND EMERY PAPER.		
Domino Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.....		

SASH CORD.		
Per lb.....	0 20	0 50
SASH LOCKS.		
Triumph and Morris, dis. 37½, 40 per cent.		
Kempbell's, dis. 40, 62½ per cent.		
Canadian, dis. 45, 50 per cent.		
SASH WEIGHTS.		
Sectional, per 100 lbs.....	1 40	1 75
Solid,		1 25
SAWS.		
Crosscut, McMillan & Haynes, per dozen	0 40	0 70
" Empire, McMillan & Haynes, per ft.....		0 70
Hand, Diston's, dis. 12½ to 15 p.c.		
S. & D., 40 to 40 and 10 per cent.		
Crosscut, Diston's, per ft.....	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.....	0 75	2 75
" frame only.....		0 75

SAW SETS.		
" Lincoln," McMillan & Haynes, per doz.....	6 00	7 50
Whiting	5 63	7 00
SCALES		
Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		
SCRAPERS		
Box, per doz.....	2 10	4 50
Boot	0 40	3 50
SCREENS.		
Door, patent, per doz		
Window, per doz		
SCREW DRIVERS		
Sargent's, per doz.....	65	1 00

SCREWS.		
Wood, F. H., iron, and steel, dis. 85 & 5 p.c.		
Wood R. H.,	dis. 77½ and 5 p.c.	
F. H., brass, dis. 80 and 5 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.....	3 25	4 00
" iron,	4 25	5 75

SCYTHES.		
Discount, per doz. net.....	4 50	6 00
SCYTHE SNATHS.		
Canadian, dis. 50 p.c.		

SHEARS		
B. & W., japanned, dis. 75 p.c.		
B. & W., N.P., dis. 65 p.c.		
Seymour's, dis. 60 p.c.		
Etna, dis. 75 to 75 and 10 p.c.		
Heinisch, dis. 60 p.c.		
Bristol, japanned, 80 p.c.		
" N.P., dis. 70 p.c.		
Clauss, full nickel, 60 p.c.		
japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHEAVES.		
Sliding door, per set.....	0 77	1 40
SHOVELS AND SPADES.		
Canadian, dis. 40 and 10 to 45 and 2½ p.c.		
SIEVES.		
Wood rim, black, per doz.....	1 05	1 10
" tinned,	1 25	1 35
Tin rim, per doz.....	2 30	2 45
" black.....	1 85	2 25

SNAPS.		
Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews	4 50	11 50
SOLDERING IRONS.		
Per lb	0 25	
WROUGHT SPIKES.		
Discount, 35 to 40 per cent.		

SPOKE SHAVES.		
Wood, English	1 80	5 00
ron, American.....	1 35	2 35
SPOONS AND FORKS.		
Tea spoons, per gross	7 50	12 00
Dessert,	21 00	00 00
Table,	30 00	30 00
Dessert Forks,	24 00	00 00
Medium	27 00	00 00
Table	36 00	00 00

SQUARES.		
Iron, per doz.....	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		
STAPLES.		
Galvanized	2 50	
Bright.....	2 25	
STEP LADDERS.		
BOECKH BROS. & COMPANY.		
Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

STOCKS AND DIES.		
American, dis. 25 p.c.		
STONE.		
Washita, per lb.....	0 28	0 60
Hindustan,	0 06	0 07
" slaps, per lb.....	0 09	0 39
Labrador	0 13	
Axe,	0 15	
Turkey	0 50	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.....	3 50	5 00
Grind. per ton.....	15 00	18 00

Stove Polish.		
No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case,	7 50	
TACKS, BRADS, ETC.		
Cheese-box tacks, blue, 80 and 20 p.c.		
Trunk tacks, black, 80 and 12½ p.c.		
" tinned, 80 and 12½ p.c.		
B.B.B. iron carpet, blued.....	80	
" tinned	80	
B.B.B. iron carpet, bright or blued (in kegs)	40	
B.B.B. iron carpet, tinned (in kegs)	45	
B.B.B. cut tacks (in bulk).....	80	
" ¼ weights, 4 to 14	50	
" 4 to 10	55	
Swedes, cut tacks, genuine, blued and tinned, bulk.....	80	
Swedes, upholsterers, 80 and 20.		
Swedes, carpet, blued and tinned, z. 70		

SWEDS lace		
" brush	50	
" gimp, blued, tinned & japan'd	75	
Zinctacks,	35	
Copper tacks	62½	
Leather carpet tacks	65	
Trunk nails, black and tinned	75	
Clout nails	75	
Cigar box nails	45	
Lining nails in papers.....	10	
" in bulk	15	
" solid heads, in bulk	70	
Saddle nails in papers.....	10	
" in bulk	15	
Tinned capped trunk nails	15	
Double pointed tacks, discount 90 p.c.		

FORGETTING THE NAME OF THE MANUFACTURER

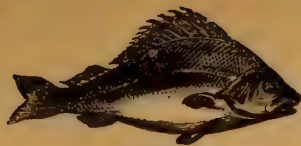
Enameline

MANUFACTURED BY
J.C. PFLICHT & CO.
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APPLY WITH DENSE CLOTH OR
BRUSH TO WASH WITH
DENSE CLOTH OR BRUSH.

PRODUCE NO DIRT

Fishing Tackle.



ALLCOCK'S STAG BRAND

goods are the best. When you buy from us you buy from the largest makers and oldest house in England. Established 1800.

The Allcock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO,
188 and 190 McGill St., MONTREAL.
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Reads every newspaper in Canada and clips therefrom all articles of a business or personal nature of interest to subscribers in this department.

Politicians can obtain from it everything the papers say about themselves on any subject in which they are interested. Business men learn of new openings for trade, pointers to sell goods, addresses of people likely to become buyers, tenders wanted, stocks for sale or wanted, reports of new industries or stores, etc.

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ESTABLISHED 1849.

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Collects accounts anywhere. Fees for current accounts 10 per cent. of amount collected. No fee less than \$1. Prompt returns. Report to you monthly. References given. Try us.

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Perfect Light Perfect Safety

Our Machine is Automatic. Safe.

Sold only through the local Hardware and Plumbing Trades, etc.

No Peddling.

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THE GUELPH ACETYLENE GAS CO.

Limited

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PACKED IN
DOZEN CASES.

FOR SALE BY

Hardware Jobbers.

F. E. CARPENTER,

Sole Manufacturer

105 PARK PLACE,
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PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting, double action, small frame. Weighs 12 oz. Rebounding lock. 32 caliber. 5 shot.

Made with shorter barrel for bicycle use.

The most perfect small pistol made.



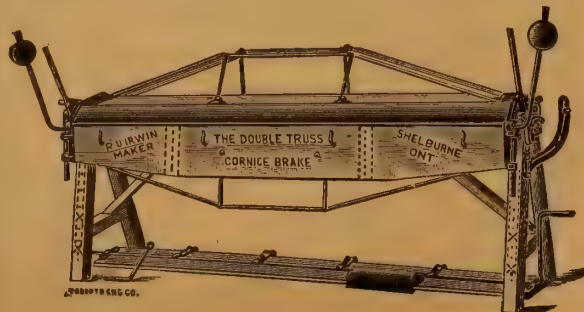
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Manufacturers of the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra, if required.

Send for circulars and testimonials to

The Double Truss Cornice
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Est. 1863

Inc. 1895

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Twelve

Medals

Awarded
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Special Prize

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HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM
HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand
as well the action of Steam Heat.

Stock rolls about 36 inches wide and $\frac{1}{32}$, $\frac{1}{16}$, $\frac{3}{32}$, or $\frac{1}{8}$ in. thick.

Sole Manufacturers:

THE CUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

Robertson's Ready-Mixed Paints.

For outdoor and indoor
work alike. They will
stand the weather, the
heat, the cold, the sun,
the wind, the rain, the
wear and tear, and in
fact everything that good
paint is supposed to stand.

Manufactured by

The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

Sterling Value
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE



The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, FEBRUARY 4, 1899.

NO. 5



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co
General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267 West St., New York

Dead Flat

Every sheet flatter than a pan-
cake. Not a buckle or a wave
in it. This means money to the
iron worker who wants to make a good job.



CANADA

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

Canada's Largest Radiator Manufacturers

THE PRIDE OF POSSESSION
BRINGS CONTENTMENT.

Use only

Safford Radiators

...and peace will be yours.

No { BOLTS
PACKING
LEAKS

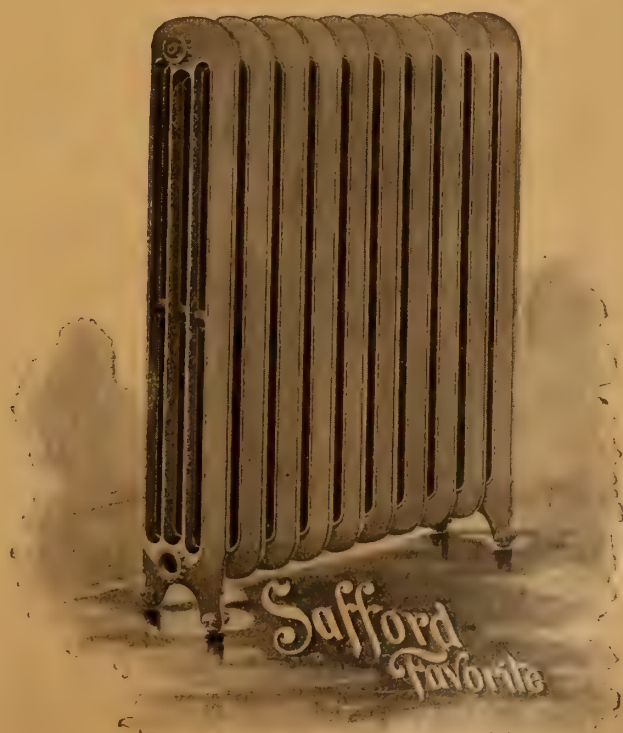
MADE ONLY BY

The Dominion Radiator Company

TORONTO

Limited

Montreal, Quebec, St. John, Winnipeg, Vancouver.



RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

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Bar Iron
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MANTELS
GRATES
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FINE BUILDERS' HARDWARE.

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One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

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Life Association.

HEAD OFFICE--TORONTO,

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

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SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN
Toronto, RICE LEWIS & SON
Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,
N.Y. OFFICE, 90 Chambers St. NEWARK, N.J., U.S.A.
Not connected with any Shear Combination.

Fairbanks Trucks.

**SPECIAL
OFFER**

for
one month.

\$1.40

The Daisy Handy Truck
or
Montreal Bag Truck

DAISY TRUCK.—Length of handle, 46 inches; width at nose, 12 inches; width at upper cross-bar, 17½ inches; weight 25 lbs. 6-inch wheels and ¾-inch axles.

MONTREAL BAG TRUCK.—Length of handle, 42 inches; width at nose, 11¼ inches; width at upper bar, 16¾ inches; weight, 25 lbs. Axles turned and wheels bored.

This offer is to the trade only, and is to introduce to you our trucks.

You all know "Fairbanks Standard Scales."

Send for Catalogue.

The Fairbanks Company

749 Craig Street, - - MONTREAL.

Our Phoenix Red Sheet Packing

is not affected by oils, ammonia, liquors, steam, heat, or alkalies. It conforms to rough surfaces. It makes a perfectly tight joint. It retains its elasticity under any condition.



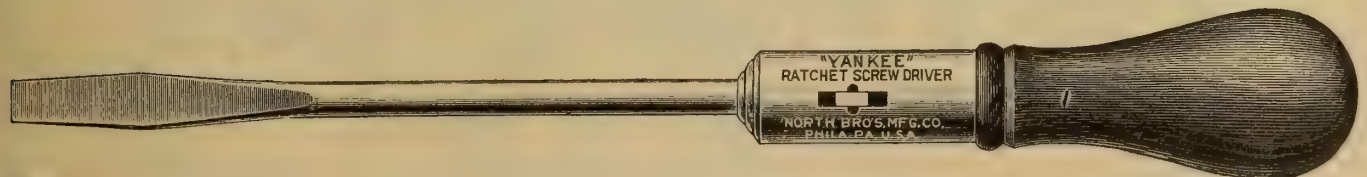
THE CANADIAN RUBBER CO.
Manufacturers of RUBBER GOODS of all descriptions.
Factories - **MONTREAL**
Branches - **Toronto and Winnipeg**
CAPITAL, \$1,500,000

OTHER TOOLS ARE VERY GOOD TOOLS, BUT

"YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12||inch.

Sold in Canada by _____

CAVERHILL, LEARMONT & CO.	-	-	-	MONTREAL
FROTHINGHAM & WORKMAN	-	-	-	"
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LEWIS BROS. & CO.	-	-	-	"
SEYBOLD, SONS & CO.	-	-	-	"
RICE LEWIS & SON, Limited	-	-	-	TORONTO
JOHN BOWMAN HARDWARE AND COAL CO.	-	-	-	LONDON
HOBBS HARDWARE CO.	-	-	-	"
WOOD, VALLANCE & CO.	-	-	-	HAMILTON

Descriptive Circulars will be mailed
on application.

North Bros. Mfg. Co.

Philadelphia, Pa., U.S.A.



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Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

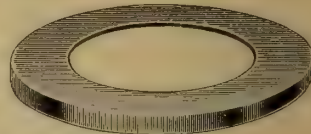
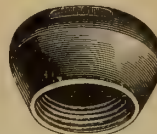
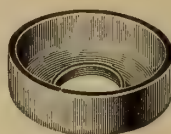
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Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.



Stove Trimmings

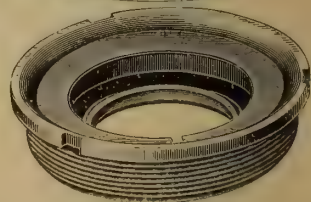
*In BRASS, NICKEL
and BRONZE.*

All orders promptly and carefully
executed.

**Sheet Steel
Bicycle Fittings**

*OF ALL
DESCRIPTIONS.*

Estimates furnished from Blue Prints,
Drawings or Samples.



CATALOGUES FURNISHED ON APPLICATION.

The H. A. MATTHEWS MFG. CO., SEYMOUR, CONN.

The fibre is long
and strong

**BROWN WRAPPING
HARDWARE MANILLA
MANILLA
FIBRE**

Eddy's Wrapping Papers

The E. B. EDDY CO., Limited

HULL
MONTREAL
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HALIFAX
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The paper stands
wear and tear

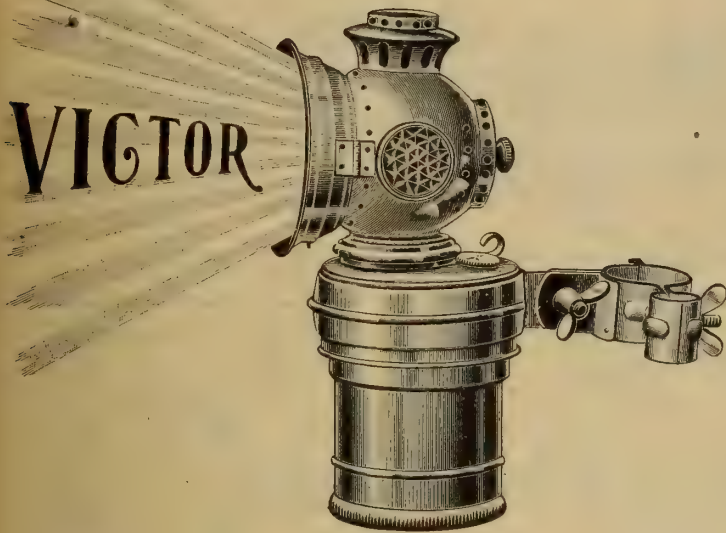
The "VICTOR" BICYCLE and CARRIAGE LAMP.

Burns Acetylene Gas.

SIMPLE!

PRACTICAL!

HARMLESS!



LIGHT!

COMPACT!

HANDSOME!

Burns longest time and consumes smallest amount of carbide.
Write for circular giving full particulars, price, etc.

For sale by the trade generally.

Manufactured by THE ONTARIO LANTERN CO.

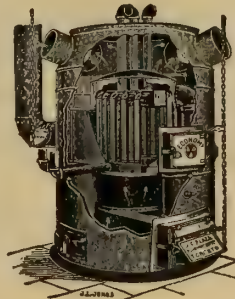
WALTER GROSE, Montreal,
Sole Selling Agent.

HAMILTON, ONT.
(6)

ALL ESSENTIAL FEATURES

That are necessary in a satisfactory
and efficient Heating apparatus are
embodied in the

"ECONOMY" FURNACES and HEATERS



The "Economy"

Hot Water and Warm Air
Combination Heater.

Their durability is assured beyond
any question. Then, too, they are
simple in construction and operation;
have enormous heating capacity, and
are most economical in the use of
fuel. These are the points that are
considered by the careful and dis-
criminating buyer, and among such
buyers our Heaters are known as
"The Standard of Excellence."

Send for new Catalogue and
Price List.

J. F. Pease Furnace Co.

Heating and Ventilating Engineers

189-193 Queen St. East, TORONTO, ONT.

TIN PLATES

COKES. Standard Brands.

CHARCOALS. Murex, Vulture, M. L. S.

LARGE STOCK. PRICES ON APPLICATION.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin
164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

CAN YOU AFFORD

to carry in stock unknown brands of stove polish that your customers know nothing about, brands they do not call for, the quality of which is inferior, gives them dissatisfaction, and the consequent sale of which brings discredit to your store? Your best judgment answers NO! Then sell

Enameline

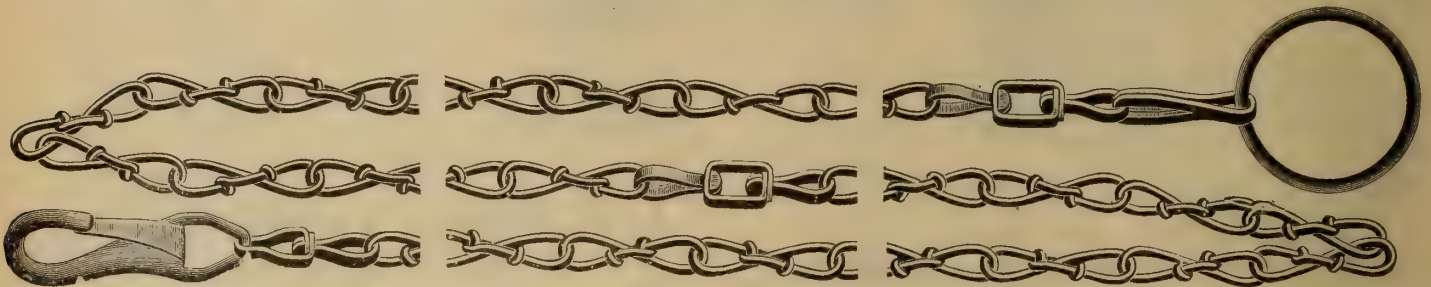
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STOVE POLISH
PASTE, CAKE OR LIQUID

If you are doing business for profit it will pay you to handle our whole line.

J. L. PRESCOTT & CO., NEW YORK.

Oneida Steel Wire Tie-Out.

For tethering cattle in fenceless pastures.
Made in all sizes.



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

NIAGARA FALLS, ONT.

MILK CAN TRIMMINGS

Kemp's Roll-rim Milk Can Bottoms.

The Roll-rim has no sharp turns; therefore, the grain of the metal is not broken, and, having a broad wearing surface on the bottom, it cannot damage floors.

It is the neatest and strongest in appearance, and is supplied with either Convex or Concave Bottoms.

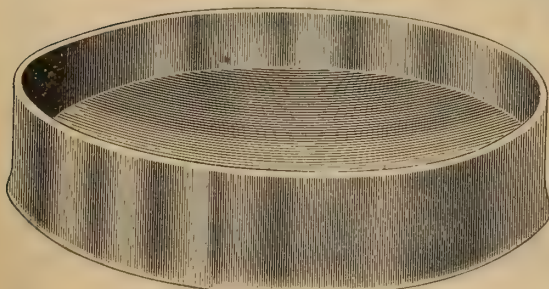
Ample space is left between the bottom and the hoop for the insertion of the Body of the Can.

By examining the cut, anyone can readily see that this style of construction makes it the strongest Bottom ever produced.

They do not cost any more than inferior Bottoms.

If you want to keep ahead of your competitors, use Kemp's Roll-rim Milk Can Bottoms.

The Iron Clad Trimmings are made the same as the Broad Hoop, and differ from them only in having a narrower and thicker hoop, which does not require the Roll-rim, and, therefore, can be sold cheaper.



KEMP'S ROLL-RIM MILK CAN BOTTOM.

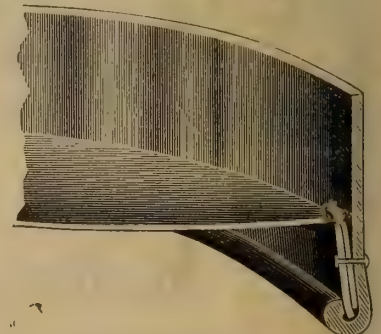
FOR
**Durability and Finish
Our Trimmings are
Unequalled.**

Tinned Iron cut to size in stock,
at right prices.

Manufactured by



BROAD HOOP PATTERN.



SECTIONAL VIEW.

Kemp Manufacturing Co., Toronto, Can.



HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, FEBRUARY 4, 1899.

No. 5

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

WILL PAINTS ADVANCE?

THE prediction is confidently made that manufacturers of white lead and putty will soon have to meet and consider an advance in prices, as, owing to the steady increase in the cost of raw material, existing values afford them little or no margin on actual cost.

A fortnight ago it was pointed out that dry white lead had advanced fully 10 per cent. from the lowest point, that zinc was 40 per cent. higher and turpentine almost 50 per cent. dearer. Since then, there has been further appreciation in all three materials, and, in addition, linseed oil, within the past eight days, has scored a material gain outside.

The rise in dry white lead since it was referred to, has been almost 12s. 6d., while

the position of linseed oil is decidedly strong, the demand for it at all leading centres of distribution being over the average for the season, while competition between crushers is less acute than it has been for some time past, although it is not quite dead yet. Still, with seed high and disposed to advance in price, they are only indulging in the practice to a limited extent.

In turpentine, a firm undertone is noted from the south, and latest advices from Savannah state that there has been an advance of $\frac{1}{2}$ c. since the week opened, sellers being firm there at 43c. In fact, the general position of this article is firm, and is further strengthened by the decided renewal of European inquiry at southern ports, and the expected active buying in the near future by the varnishmen.

The stock on hand at Savannah, on January 28, was 14,411, against 46,608 for the same date last year. Receipts have been heavier during the present season than last, but this is more than offset by the heavier demand, the movement from Savannah since the first of April last being 319,565, against 263,544 for the same period last year.

IRON PIPE PRICES UPWARD.

Values on wrought iron pipe are considered likely to advance, as a result of the sharp appreciation in raw material, the most recent being a gain this week, at Pittsburg, of \$2 to \$2.50 per ton in strips, the material from which they are worked. While there has been no change, therefore, in the jobbing range, makers are accepting orders cautiously, and some of them have already withdrawn their prices for delivery in Manitoba and the Northwest.

TORONTO BOARD OF TRADE WAKING UP.

THE members of the Toronto Board of Trade are showing commendable industry in taking up the matters outlined in President Kemp's inaugural address, particularly in regard to the short line railway from Georgian Bay to Lake Ontario.

For the business interests of Toronto an air line between the points named would in all probability be a good thing. At any rate, the board of trade believes that it would be. And when it is believed that the acquisition of a certain thing is desirable it is well for those who conceive the idea to set out at once to secure the desideratum, whether those who desire it are few or many or whether its attainment may require a long period of labor.

A motionless wheel soon gets rusty. So does a motionless board of trade. The Toronto Board of Trade, during the last five years, has practically had no influence with the transportation companies, who were side-tracking the city, or with the politicians, who ignored its bidding, simply because they knew it was too rusty to roll upon and crush them.

A new era now seems to have dawned. New blood is being infused into the organization, and an honest desire is being made, from the president down, to remove the rust and make the Toronto Board of Trade what it should be—a power for the commercial good of the "Queen City."

A live institution always attracts, and as the Toronto Board of Trade manifests life and energy, its membership will be augmented and its influence for good will be increased.

CHARCOAL PIG IRON AT DESERONTO.

THE new smelting works at Deseronto, Ont., are now practically ready to begin the manufacture of charcoal pig iron.

The output of the furnace will, it is expected, shortly be 35 tons per day. To keep the furnace going at this rate will require over 60 tons of ore, and for each ton of iron, 85 bushels of charcoal.

Already, 12,000 tons of hematite ore are on the grounds, while The Rathbun Company, of Deseronto, has contracted to supply the charcoal necessary at 4c. per bushel. This is a most reasonable price. At some of the charcoal furnaces in the United States 6 to 6½c. per bushel is paid.

This is the only charcoal iron furnace in Canada, and, while the market is not large, it ought to be able to keep this one concern in operation.

The uses to which charcoal iron are put are chiefly car wheels, malleable iron, water pipes, etc.

A plentiful supply of iron ore is to be found in the counties adjacent to Deseronto, while as to the material for charcoal, there is an abundance near at hand.

The Rathbuns are erecting charcoal works of the most modern and approved type, and 40 to 60 cords of wood a day will be required to keep them supplied.

The construction of the furnace was begun in May last, and the buildings and their appliances cover nearly four acres of ground.

This Deseronto furnace makes the second in Ontario and the seventh in the Dominion.

PIG IRON ON 'CHANGE.

WITHIN the last month pig iron has been sold for the first time on the floor of the Consolidated Exchange in New York. This is an innovation in the iron trade, as far as the United States is concerned, for, heretofore, iron has not been treated as a speculative commodity in America, though in Scotland it has long been bought and sold on 'Change, especially in the Royal Exchange, Glasgow, where it has been the leading speculative commodity for 50 years.

The system under which iron is thus sold is known as the warrant system, which is to

the iron business just what the elevator system is to the grain business.

The rules governing transactions under the warrant system state that each warrant shall be for 100 tons of pig iron, and that but one brand and one grade of iron shall be covered by the same warrant; that all transactions shall be cleared daily through the clearing house; that bids shall be made on a scale of 12½c., and that accrued storage on warrants shall be deducted from the invoice at time of delivery.

The functions of a warrant company are simply that it receives into its yards pig iron which it has previously weighed, inspected and classified and for which it gives to the owner of the iron a warrant. This warrant is simply a negotiable warehouse receipt, which describes the quality and weight of the iron it represents and guarantees or warrants that on payment of the storage and return of the warrant, duly endorsed, the iron will be delivered f.o.b. cars to the last owner of the warrant.

A warrant company performs no other acts than those mentioned, but the effect of these acts is to create a document which the furnace company can sell for cash and which can be transferred by purchaser any number of times, each purchaser becoming the owner of the iron by the transfer of the document; each purchaser having the right to resell the warrant, or to cancel same, and obtain the iron for export, consumption or any other desired purpose. The warrant names on its face the rate of storage per month, so that each purchaser may know what it will cost him to carry it.

The sales so far on the New York Consolidated Exchange have not been large, amounting to less than 2,000 tons, but Chas. C. Wheeler, of Port & Pomeroy, bankers, who inaugurated the dealing in warrants on the Consolidated Exchange, claims that, so far as that exchange is concerned, iron will sooner or later be one of the leading speculative commodities, and that the exchange will then have this conservative article entirely in its own control, with the possible exception of the Glasgow Royal Exchange. He also states that iron is bound to go higher, for the reason that conditions are practically the same as three years ago,

when there was an advance of from \$6.20 to \$10 in Birmingham, and Bessemer \$9.25 to \$17 in Ohio—or from 50 to 75 per cent.—per 100 tons.

The only surplus iron carried by others than the warrant companies is confined to furnace companies' stocks, which are seldom allowed to exceed two or three weeks' production. Scotland, where the warrant system has been in successful operation for over fifty years, has, for thirty years, carried from six to twelve months' production in her warrant yards. During one period of five years in succession, more than twelve months' stock was carried in the city of Glasgow alone. The statistics of the Scotch system show that the dull periods, when surplus iron accumulated in warrant yards, extended over five, seven, and fourteen years, respectively, and that three times within thirty years these enormous accumulations were reduced to less than one hundred thousand tons in recurring seasons of active consumption.

In the United States less than a quarter of the entire stock, 150,800 tons in a total of 659,621 tons is carried in warrant yards; the rest, 508,821 is kept in furnace yards. In Scotland, the contrary is the case, for there 316,507 tons are held in warrant yards and only 73,838 in furnace yards,

ADVANCE IN CHAIN.

Jobbers in Toronto have been advised of an advance of \$2 per ton in the price of coil chain of United States manufacture.

Prices to the retail trade are, in consequence, higher, now being as follows: 3-16 inch, \$7; ¼ inch, \$6; 5-16 inch, \$3.50; ¾ inch, \$3.50; 7-16 inch, \$2.95; ½ inch, \$2.80; ⅝ inch, \$2.70; ¾ inch, \$2.50.

The market is decidedly strong at the advance, and the manufacturers intimate that a further appreciation is probable early the present month.

DROPS FROM THE EDITOR'S PEN.

Do not borrow trouble; it may run you into debt.

He who knows it all has not yet mastered the alphabet.

A business that will not stand being pushed must be tottering toward the grave.

Customers will not have confidence in the merchant until he has confidence in himself.

NECESSITY FOR AN INSOLVENCY LAW.

A RECENT press despatch stated that it was the purpose of the Government to introduce an insolvency law at the ensuing session of Parliament. It has neither been confirmed or denied, and until one or the other is done a good many will fear it is too good to be true.

The business men of this country asked time and again for an insolvency law, but while no refusal was ever made, neither was the desideratum forthcoming. Successive Governments have merely played with business men in this respect, or, to use a slang phrase, have "jollied" them.

When the deputation of British exporters waited upon Finance Minister Fielding in London, and pointed out the disabilities under which they labored in doing business with Canada, the hopes of those in the Dominion who were advocating an insolvency law were somewhat elevated, only subsequently to be dashed to the ground.

We have, therefore, the importing class in Canada and the exporting class in Great Britain asking for the desired law and yet it has not, so far, been enacted.

It is all very well for the argument to be advanced that if people did not give credit there would be no need of an insolvency law, but people do give credit, and a greater part of the world's business is done on credit and so it will continue to be.

Credit is a transgression of no law. It is the abuse of it that is a transgression, and it is because it has been so much abused that a great many retailers have wisely adopted the cash system. But the application of the cash system, while possible to the retail trade, is not possible to the wholesale trade or to the exporting trade. Some time must elapse between the time the goods leave the warehouse or factory before the money is received in payment therefor.

This being so, efficient laws for the protection of those engaged in business, either of a wholesale or exporting character, are decidedly necessary. Their absence entails a restraint upon trade.

The Provinces have power to enact laws governing assignments, and, while there has been an improvement in the measures

of this nature of late years, yet, they are far from perfect, to say nothing of their lack of uniformity.

The power to enact bankruptcy legislation is reposed in the Dominion Parliament, and it is to be hoped that, at the ensuing session, the Government will take upon itself the responsibility of introducing and passing the desired measure, and particularly one which will do away with the iniquitous system of preferences.

The business men's organizations should take the matter up, and again impress upon the Government the necessity for the measure.

Lies are after all poor, impotent things, but some people seem to think they are mightier than the truth.

THE WIRE NAIL SITUATION.

WHILE there is no quotable change in the price of wire nails in Toronto, the market is still gathering strength. The jobbing price for carload lots is \$1.95; for smaller quantities \$2 represents the ruling net price.

Wire nails at \$2.25 per keg are confidently looked for, and it is quite possible that before the present week closes another step in that direction will have been taken.

At any rate, neither manufacturers nor jobbers are desirous of doing business at prices now ruling. Orders for forward delivery they will not accept, and one manufacturer has this week refused to entertain an order for 500 kegs at \$2 per keg f.o.b. factory for what was practically prompt delivery.

The appreciation in the price of wire nails is beginning to influence the demand for cut nails. This fact is apparent in the United States as well as in Canada.

The price of wire nails in Pittsburg and Cleveland is now \$1.55 per keg for carload and \$1.60 for less quantities. Without taking into calculation the freight, this would mean \$2.15 to \$2.20 f.o.b. Toronto.

He who is as watchful for the interests of his employer as he is for his own is on the high road to success.

HOW TO GET CANADIAN TRADE.

THE representative of Hardwareman, of Birmingham, who has been investigating the Canadian trade, gives this advice to exporters in Great Britain:

"An agent duly appointed, terms of credit arranged, and trade policy decided upon, the rest is mere detail. But it is by careful attention to detail that Canadian trade is to be maintained. The first detail, then, is the invoicing. A clear, definite invoice, reduced to its absolute minimum in the matter of complex charges, is the best plan to ensure a maximum, so far as regards the amount of that invoice. Now, most American wholesale houses have no extra charges of any description. They pay carriage and all other charges, including them in the price of their goods. Their invoices are easily understood, and very little time is requisite to check them. Far better, they cause no irritation. The reverse is the general rule with English invoices. There is no end to the subsidiary charges, so much so, indeed, that I have seen American goods bought on the sole ground that the buyer need not be bothered with a complicated English invoice. One constant source of annoyance is the charge for packing. As I have already pointed out, timber for packing in England costs a vast deal more than timber in Canada. When, therefore, a Canadian retailer finds himself debited with 7s. 6d. or 15s. for a packing-case, the amount is a dead loss to him, for the Canadian value would be about 25 cents or less. These prices for packing-cases, as often as not, are charged up to insure their return, but they cannot be returned from Canada. It is accordingly necessary to include the net cost of the packing in the price of the goods. The Canadian buyer is not unnaturally rendered suspicious, and imagines many vain things as to possible overcharges elsewhere.

"Another point in connection with invoicing to be carefully noted is that invoices should be sent to the agent in duplicate, one for use in the Customs, the other for the agent's inspection before it is sent to the customer. This is a precaution, for the agent will often 'spot' an error and rectify it. This may seem a small matter, so far as English trade is concerned, but when a customer lives in some inaccessible quarter in the Northwest, or in the Maritime Provinces, it is highly essential that every possible cause of dispute is eliminated. Neither buyer nor seller wants to have goods thrown upon his hands, in consequence of a misunderstanding. In England the matter can be put right almost by return of post; in Canada a couple of months might elapse and the season for those particular goods be wasted."

NEVER READY.

SOME people are never quite ready, writes a merchant in Iron Age. An opportunity comes their way, but for lack of preparation they fail to seize what may never come back.

How often do we see such people employed in the store and office. It may be the invoice clerk, who, when making out an invoice for a special customer, has not the prices at hand. When reminded that the man has special prices he begins to wonder where to get his prices, and much time is consumed in hunting them up. Instead of being prepared properly for his duties his work drags him along.

Or the shipping-clerk overlooks the fact that a certain customer's goods are to be prepaid. He may have shipped goods to this customer repeatedly, but he neglects instructions, and annoyance follows. Goods are shipped wrongly and complaints come in.

NOTE BOOK MEMORANDA.

When it is impossible to keep these details in mind he should jot them down in a note book. The difficulty with many men to-day who are grumbling because they do not get more pay is that they are mere machines. They are good at straight ahead work with little variation from day to day, but where thought and memory are necessary they seem to be at sea. Business now is very complex. There are many details which if omitted cause trouble. The wide-awake, progressive clerk must be on the watch for them. A mere automaton may run when wound up, and perform certain acts, but it can only do that for which it is intended. The boy or man in the store is "not built that way." Although he may have monotonous work to do, he should not allow himself to get in a rut. Sometimes it is the proprietor himself who is censurable.

DISCARDED INFORMATION.

For instance, he receives by mail catalogue a price-list of some article, say a shoe repairing outfit. He looks it over and concludes it is of no interest to him and throws it in the waste basket. A few days later a customer inquires of him if he sells cobblers' sets, and at what price. He informs his client that he does not keep them, and has no idea at what price they are sold. It then dawns upon him that he has seen something of this kind somewhere, but just now has no definite idea where, and is unable to give information which might have led to future business. He was relatively in the same position as the careless shipping-clerk or the stupid invoice boy. He was not prepared to take advantage of an opportunity for extending his trade and reputation as a live merchant.

Every merchant is continually receiving

catalogues of goods not carried in stock by him, and circulars and letters from the trade regarding specialties and new goods. The hardware trade papers also contain much information along this line, and the alert merchant should always be on the lookout for the latest or any information which will be of use in his business. He cannot afford to throw this matter in the waste basket. If he sees anything of interest he should put it where it is accessible and have it properly classified.

INFORMATION THAT PAYS.

It is often worth something to a dealer to be able to give information about an article which he may not have in stock to an intending purchaser, even if he is unable to make the sale. It only takes a little of his time and shows his courtesy, if nothing else, but it sometimes leads to a sale of the article in question, as he can often order by telegraph and have same shipped by express, if wanted in a hurry; he being satisfied with a small commission for his profit.

Some might argue that such small matters were unimportant, the profit insignificant and the results insufficient to warrant the trouble. But when a customer is thus pleased it tends to cement business relations with him, as he appreciates your efforts to please him.

He instinctively concludes that you understand your business, and he gives you credit for being alive to the interests of the trade.

NO TIME FOR TRADE LITERATURE.

The dealer who is so immersed in his business that he never takes time to look at any reading matter in trade papers and catalogues which find their way to his desk, and who thinks he cannot take time for a holiday, makes a grave mistake. Instead of advancing his interest he is missing ideas which may be of service to him, and is becoming a machine merchant instead of a thinking one.

By taking a few weeks off and visiting other hardware stores and manufactories he gets enlarged ideas of how his fellows manage and cannot but learn something which he can put in practice.

It will give him an opportunity to plan and make improvements in his own store.

PATENT REPORT.

Below will be found a list of patents recently granted by the Canadian Government through Marion & Marion, solicitors of patents and experts, New York Life building, Montreal. Nos. 62370, Norbert Champagne, Ste. Monique, P.Q., stump extractors and conveyors; 62392, John A. Markle, Birtle, Man., heaters; 62409, Wm. Bruce Morris, Dunrea, via Belmont,

Man., bicycle tire; 62411, J. P. Marchand, Lowell, Mass., bicycle tire; 62413, Karl Sykora, Strakonice, Austria, necktie fasteners; 62424, Calixte Courchesne, St. Gabriel de Brandon, P.Q., boilers. Caveat: No. 6744, Louis Noel, Montreal, P.Q., carving machine.

VISITED THE BINDER TWINE FACTORIES.

MR. JOHN BOWMAN, of the John Bowman Hardware & Coal Co., has just returned from New York and Boston where he has been visiting the binder twine manufacturers. When at Boston, he went out to the Sewall & Day Cordage Co.'s mills and went over their extensive plant. He was surprised at its magnitude, their rope walk being over 2,000 feet long and said to be the largest in the world. It was apparent there was a regular boom on in the binder twine and rope departments, some 500 hands being fully employed in turning out the material.

"The firm of Sewall & Day are known all over the United States as producing the very finest quality of goods, and anything bearing their brands is standard on the market and commands the highest price. They never let any inferior fibres into the manufacture of their goods, and the strictest care is exercised and closest inspection given to all twine and rope, so that they practically to-day are leading the market for quality and perfection of manufacture," remarked Mr. Bowman to, **HARDWARE AND METAL.**

At Mr. Bowman's request, six balls of binder twine of each quality were run off the different spinners and the following are the results of the tensile strength, as per Winter's testing machine, viz., "Diamond Medal" pure manila, 145, 150, 120, 120, 140, 150 lb.; mixed manila, 139, 139, 130, 150, 135, 136 lb.; standard, 115, 103, 109, 107, 80, 145 lb.

Dealers purchasing binder twine may rest assured that goods purchased from the John Bowman Hardware & Coal Co., bearing the "S. & B." brand, will be of the finest quality of material, especially the "Diamond Medal" brand.

**WIRE NAILS
TACKS
WIRE**

Prompt Shipments

The ONTARIO TACK CO
Limited
HAMILTON, ONT.

CREDIT LEAKS.

THE other day the collector of a local store returned to his place of business in the evening without having collected a cent, says an exchange. That man had spent a day, from 9 o'clock a.m. till eight, faithfully trying to make collections from people most of whom were personally known to and friendly with the proprietor. That collector had the debtor's excuse on every bill—which was in itself a good feature—and in most cases an appointment when to call again.

"I shall open no more accounts in 1899 unless I know absolutely where the pay is coming from and when," said the proprietor. It is a good resolution for any store giving credit. This loss on credit advanced is a leak that may be stopped by carefulness; a study of the case; a level head; the ability to say "No" gracefully and the wit to ask leading questions without giving offence. Of course, it were better to give no credit, at least in a general way; but conditions do not always favor it.

No stranger is likely to ask for credit. If he does, and unless he can give an absolutely good account of himself and a satisfactory reason for seeking credit, it is safest to refuse. If you doubt him, don't trust him. Don't undertake to place him under unusual conditions because your suspicions are aroused; if you suspect him have nothing to do with him. If he is slippery he will outwit you in spite of your extraordinary safeguards.

The kind of man to let entirely alone is the one from whom you desire an extra guarantee. If you are right in your suspicions, he will allay your fears, eventually, and "do" you in the long run. Prove any suspicion you may have and trust no man whose name on your book may cause you uneasiness.

Be frank, fearless, straightforward and to the point. Honest men will not take offence. Rogues may pretend to, but in their heart of hearts they, too, will respect you. The honest man seldom goes boasting of his honesty and that of his father before him. Men thus afflicted with enlargement of the mouth are never too good.

Deal with honest men. Let rogues flock by themselves. Many a well-meaning man is kept insolvent by an expensive family. Many a man who might pay doesn't, because he keeps himself poor in purse by his pampering personal habits. If he drives too much, blows too much good money across the bar, or lives above his means in other particulars, somebody besides himself must foot the bills; see to it that you are not that somebody.

Every community is full of these social parasites that strive to suck a living from

31-7-01

**A
TOUCH
IN TIME**

with the paint brush is like that "stitch in time" that "saves nine." Paint is a labor-saver in the home. A glossy, painted surface discourages dust. But the labor of painting is lost if you use the wrong paint.

Different surfaces call for different coverings. Housewives don't put rag carpet on the parlor floor nor velvet carpet in the kitchen. They wouldn't suit. Paint making has progressed more than carpet making. There's a special paint for every kind of painting. Looks best, wears best.

THE SHERWIN-WILLIAMS PAINTS

For painting base boards, window blinds, cupboards, shelves, flower stands and other little things about the house, get The Sherwin-Williams Family Paint. For furniture, pottery, wicker-work and decorative work use The Sherwin-Williams Enamel Paint. For bath tubs, iron bedsteads and metal work get The Sherwin-Williams Bath Enamel. Be sure you're right. "Paint Points," sent free, will help you.

THE SHERWIN-WILLIAMS CO.,
PAINT AND COLOR MAKERS,
Canadian Dept.,
21 St. Antoine Street, Montreal

the labors of their fellow men. Every one of them may be known—at least, in small communities—if merchants will but half try. Letter after letter comes to us, asking what to do with such people. Don't trust them! That's the only way to keep even with them.

A FORTUNATE INVESTMENT.

A reader of **HARDWARE AND METAL** who is receiving numerous congratulations just now is Mr. Cummings, of James Johnston & Co. He bought War Eagle shares at 80, and to-day they are worth 320, and he has, besides, been getting an 18 per cent. dividend. Just how much he has invested no one knows, for Mr. Cummings is a very canny Scotchman. Some say \$10,000, but Mr. Cummings says it was only a few dollars, and not worth making any fuss about. The \$10,000 is probably not far out. There are few men with so many friends who will feel just as pleased as he is himself in his fortunate investment.

TRUTH IS MIGHTY.

The advertising man had exhausted his strongest argument, and still the prospective advertiser remained obdurate.

"No," he said, "I will not do any more

at present. The season is right, your paper is good, but I have too many irons in the fire already."

"If," said the advertising man, "you could only realize that, instead of offering you an additional 'iron,' I am really offering you a pair of pincers with which to extract the nuts of business from the fire of competition, you would view the matter differently."

And the prospective advertiser, being a man of sense, recognized the force of the argument, and changed his views accordingly. His card will be found in to-day's issue.—**Hardware.**

ROPE AND CUTLERY.

W. B. Stewart, manufacturers' agent and representative of The Consumers Cordage Co., of Montreal, and The Hamilton Cotton Co., of Hamilton, has removed to 27 Front street west, where he has secured much larger premises, and will hereafter carry a small stock of cordage, twines, etc., for the convenience of his customers.

T. Mortimer, formerly with M. & L. Samuel, Benjamin & Co., who is commencing business as manufacturers' agent in cutlery and hardware, has secured an office and sample-room from Mr. Stewart, at same address.

MERITS OF DIFFERENT SHADES OF IRON-OXIDE.

OXIDE OF-IRON colors, which are largely used as the basis of preservative paints for exposed iron-work, are met with in a variety of tints, ranging from dark brown to red or purple, says a contemporary. When free from any appreciable proportion of impurity, whatever their shade may be, they are still roughly identical in chemical composition; nevertheless, their price increases as the color changes in the order mentioned. This is due to the fact that they are made by igniting some raw material, such as ochre, in a muffle furnace, when the longer or more strongly they are heated, the more their shade approaches a purple. Experiments have recently been carried out in Germany to see whether there is any practical advantage as regards anti-corrosive power, etc., in using the more costly grades, and the results of the investigation may be briefly summed up as follows: A purple oxide does resist the attack of acid-vapors in the atmosphere better than a brown one, but, bearing in mind the great difference in price, a red oxide is the most suitable for general adoption. The specific gravity of the pigment rises during the furnacing, and, assuming that the colors are fairly pure, it forms a trustworthy indication of their industrial value. The heavier the oxide, the better it is; allowing for cost, a specific gravity of 4.2 is the most desirable. Granting that the substance is fine enough to grind well into oil, the degree of fineness does not affect the anti-corrosive power of the paint. It may be remarked that acid-resisting capacity is of special importance in the case of oxide paints, because these are the materials most generally employed to protect the ironwork of railway roofs and bridges, where the metal is exposed to the influence of the highly-acid exhaust from locomotive engines.

STEEL NAILS RETURNING.

"A peculiarity of the nail market is the return—after a long absence—of the steel nail," observed a hardwareman recently to Stoves and Hardware Reporter, St. Louis. "Up to the early eighties, iron cut nails were used very extensively. Steel nails were first placed on the market late in the seventies, and were quite popular in the eighties, when wire nails began to be introduced. The success of the wire nail was phenomenal, and it very quickly drove the cut nail out of the market almost entirely. During the last eighteen months, however, the demand for steel nails has been steadily reviving, and to-day the call for them makes these nails quite an item in the

average hardware bill. At first, the demand was for 3d. and 4d. It seems that wire nails have been found unsatisfactory for some purposes, such as putting on shingles, where the cut nail could be used with much advantage. This apparently started the demand which has grown to considerable proportions. One house, which has not carried a keg of cut nails for five years, has just placed orders for several carloads. Thus it has come to pass that, while obituaries of the cut nail are still being written, it promises to be restored to its old-time popularity."

SEASONABLE GOODS.

Lockerby & McComb are showing a fine line of military camp beds and stools. They have made special arrangements with the factory they represent, whereby they take the whole output, and are thus in a position to quote close prices. They are also showing a large and fine line of croquet sets, children's wagons, and washboards, etc.

They are also manufacturers of tarred and brown sheeting papers. Their principal brands are "Shield" and "Dominion," which have a large sale throughout the Dominion.

Speaking of the prospects for next season, Mr. McComb said: "The condition of the pitch market is firm. This article has advanced considerably on the other side,

and we anticipate a still further advance in the near future. Tarred felt, and all grades of sheeting, we expect, will be in heavy demand, and, as raw stock is scarce, we expect much higher prices in 1899 than the past season."

TINPLATE AND ENAMELWARE

A press despatch from Trenton, N.J., says: "Articles of incorporation were filed Jan. 26 of three allied concerns, the National Tinplate Company, the United States Tinplate Company, and the National Tinplate and Stampedware Company. The two former have an authorized capital stock of \$125,000 each, and the latter, the National Tinplate and Stampedware Company, an authorized capital of \$20,000,000. The companies are empowered to manufacture and deal in tin, terne, black plate and steel plate, and the larger concern is, in addition, authorized to manufacture steel and iron. The incorporators of the three companies are the same individuals, viz.: David G. Reid, William B. Leeds, and James B. Dill. The capital stock of the National Tinplate and Stampedware Company is divided into \$10,000,000 preferred stock with 7 per cent. cumulative dividend, and \$10,000,000 common stock. The companies are understood to be organized in opposition to the National Enamelling and Stamping Company, incorporated on Saturday last with an authorized capital of \$30,000,000."

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and carefully selected; will double seam either way of grain; are **fully equal** in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and **cost less.**

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture **all their own Steel in their own Steel Works**, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. **Cost** no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent 21 St. John St., MONTREAL

WANTED—AN ENERGETIC SALESMAN in every town in the Dominion One with a connection amongst Manufacturers, Millmen and Machinists, etc., to handle a good line on commission. Apply, Box A.M., HARDWARE AND METAL, Toronto. (dh)

THE OAKVILLE BASKET CO.,



Manufacturers of

1, 2, 3 Bushel

Grain

AND

Root

BASKETS

THE OAKVILLE
BASKET CO.



THIS IS OUR LATEST STAND WITH
BALL BEARINGS.

W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.

THE LEADER CHURN.

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.

Made Exclusively by _____

**THE DOWSWELL
MANUFACTURING CO.,**
Limited

HAMILTON, CANADA



David Maxwell & Sons

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

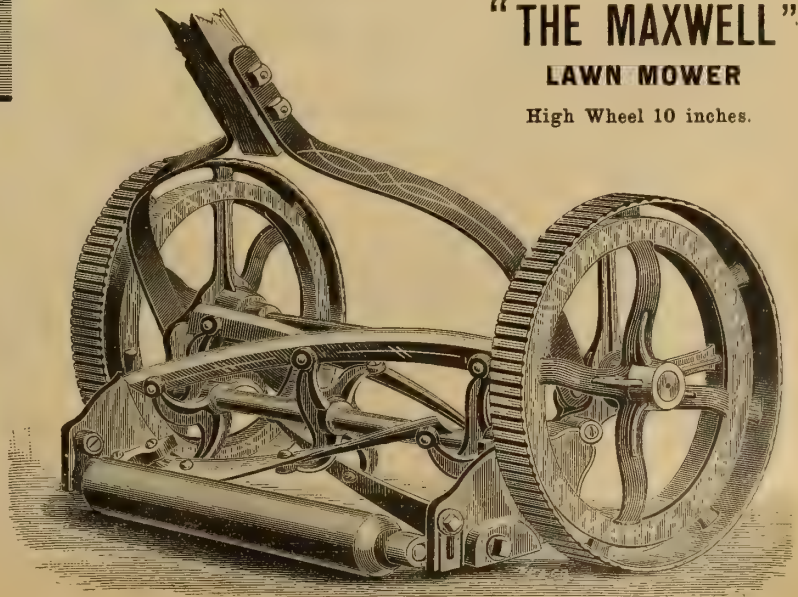
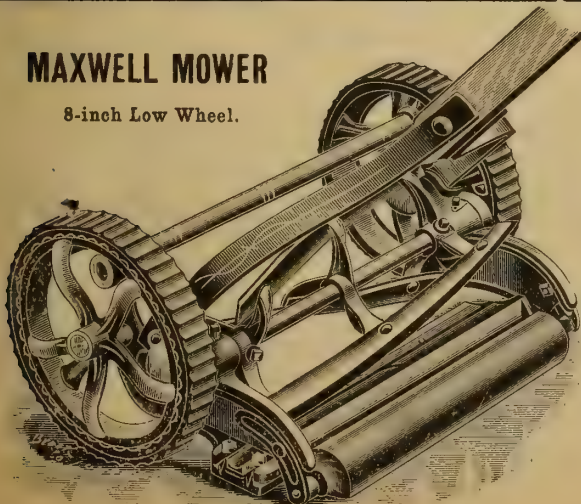
SEND DIRECT TO US.

"THE MAXWELL" LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

D. E. MORIN & CO., general merchants, Notre Dame du Lac, Que., have assigned, and Paradis & Jobin have been appointed provisional guardians.

A. A. Hunter, general merchant, Brome, Que., has assigned.

T. Roux, general merchant, Plessisville, Que., has assigned.

B. Hallonquist, general merchant, Napinka, Man., has assigned.

R. Dawson & Son, hardware dealers, Pictou, N.S., have assigned.

Thos. Wilson, general merchant, Trail, B.C., has assigned to Edward Bailie.

C. Gelinis & Frere, general merchants, etc., St. Paulin, Que., have assigned.

Francois X. Lagrand, general merchant, St. Christine, Que., has compromised at 40c. on the dollar.

Pierce Bros., general merchants, Warren and Oxbow, N.W.T., and Baie des Peres, Que., have assigned to J. M. McNamara.

David Strubb, blacksmith, Beechwood, Ont., has assigned to Sidney Mullett, Seaforth, and a meeting of his creditors will be held on February 3.

J. M. Nichols, general merchant, Cambridge, Ont., has assigned to M. H. Roach, Beaverton, and a meeting of his creditors will be held on the 6th inst.

PARTNERSHIPS FORMED AND DISSOLVED.

H. & W. Keys, hardware dealers, Weston, Ont., are dissolving.

Ecclestone & Ramsay, hardware dealers, Bracebridge, Ont., are about to dissolve.

Sigler & Cristall, general merchants, Edmonton, N.W.T., have dissolved, H. Sigler continuing.

Ahern & Gruetznar, hardware merchants, Hanover, Ont., have dissolved, A. F. Ahern continuing.

A special partnership has been renewed for three years by the firm of J. W. Pyke, iron and steel dealers, Montreal.

Napoleon Pare and Louis Pare, jr., have registered partnership under the style of N. & L. Pare, wood and coal dealers, Lachine, Que.

Thomas Bellamy, implement dealer, Edmonton, N.W.T., has admitted George Bellamy, of Shoal Lake, under the style of Bellamy & Co.

T. W. Boyd & Son, dealers in bicycles and sporting goods, Montreal, have dissolved, and Thos. W. Boyd, jr., continues; style unchanged.

SALES MADE AND PENDING.

A. J. Pallister, general merchant, Kars, Ont., has sold out.

The premises of the late Wm. Nicoll,

blacksmith, Norwood, Ont., are offered for sale.

The assets of J. D. Caron, general merchant, Hull, Que., are to be sold on the 4th inst.

The assets of F. Parent, general merchant, Rimouski, Que., are advertised for sale on the 7th inst.

Duquette & Co., general merchants, Whitewood, Man., are advertising their business for sale.

J. W. Tremblay, general merchant, Les Eboulements, Que., has sold his stock at 51c. on the dollar.

The assets of J. A. Laurent, general merchant, Father Point, Que., are advertised for sale on the 7th inst.

E. Hipwell & Co., general merchants, Westbourne, Man., are advertising their stock for sale by auction.

The stock, etc., of the estate of H. C. Dahl, general merchant, Erin, Ont., is advertised for sale by auction on Feb. 8.

CHANGES.

Hector Milne is opening out as implement dealer in Hamiota, Man.

L. H. Dickson, harnessdealer, Rodney, Ont., has sold out to E. S. Hiscocks.

G. D. Scott & Co., general merchants, Nanaimo, B.C., have been incorporated.

The Oxford Creamery Co. have been incorporated, with headquarters at Windsor, Ont.

Hood & Co., general merchants, Teeswater, Ont., have been succeeded by Rogers & Co.

FIRES.

C. Labelle & Co., painters, Sudbury, Ont., have been burned out.

The stock of Honore Pepin, painter, Montreal, has been damaged by water; insured.

E. S. Haines, general merchant, St. Mary's, N.B., has been partially burned out; insured.

DEATHS.

Louis T. Huot, painter, Quebec, is dead.

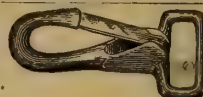
W. J. Home, contractor, Toronto, is dead.

MAKING MATCHES.

The E. B. Eddy Co., Limited, Hull, Que., has now got its new match factory in thorough working order. This factory is equipped with the latest and most modern type of match-making machinery, and the company is now devoting extra time and attention to this particular line of its business, with a view to not only increasing the output, but also of putting on the market new brands and new styles in sulphur, parlor, safety, wax and advertising matches. And all this is going on while the paper mills of the company are running full time, with more orders than they can well handle.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

PRIEST'S CLIPPERS

Largest Variety. Toilet, Hand, Electric Power. ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM. SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in very style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel and will not heat. 1839 catalogue ready. Coates Clipper Mfg. Co. WORCESTER, MASS.

McLuskill, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

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TORONTO, ONT.

General Patent Agents in procuring Home and Foreign Patents and all matters pertaining to Patents and Patent Causes, also the buying and selling of Patents, and the Organizing and promoting of Joint Stock Companies. List of 500 inventions wanted and list of Canadian Patented inventions for sale, mailed to any address free, address

The Toronto Patent Agency

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TORONTO, ONT.

HARDWARE BARGAINS

We are now in position to sell all the goods we have contained in the warehouses of

Samuel, Benjamin & Co.
30 Front St. W.

The goods are all sampled and listed with prices in Plain Figures.

The prices are the regular Wholesale or Manufacturers' figures to the retail trade. In order to clear out the entire stock **during the next 30 Days**, we are prepared to give a **very liberal discount** which will enable the trade (**Wholesale or Retail**) to secure goods for their Spring business much below **Manufacturers' or Importers' Costs**. We strongly advise dealers to inspect this stock **without delay**.

H. S. HOWLAND, SONS & CO.

Stock consists of

Plumbers' Goods,
Tinware, etc.
Cutlery,
Building Hardware,
Mechanics' Tools, etc.

37 West Front Street

TORONTO.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Feb. 3, 1899.

HARDWARE.

THE inquiry for shelf and general hardware has assumed much larger proportions during the present week, and all the jobbing houses agree that business promises to be much better than last year. Buoyancy in values no doubt is making traders more keen to get in at the low prices while it is possible, and the jobbers feel the effect of this disposition. Prices all round are firm, from shelf goods to all classes of material. For the first time this week jobbers advanced their prices on wire nails, but at the rise they are still below a parity with the present first cost at the mills. In plain wire, also, they are still doing business on the old basis, though, from the opinions expressed this week, it is doubtful if they will continue to do so much longer.

BARB WIRE—Business for barb wire has not been specially active since the rise, though there is rather more inquiry than there was last week. We quote: \$2.15 f.o.b. Montreal.

PLAIN WIRE—Despite the increased first cost of plain wire, jobbers here are still working on the old basis this week, the only explanation being that they took the precaution to secure good supplies at the low figures. Oiled and annealed is still being sold at 37½ per cent. off the list and galvanized 35. These prices are less than the makers are asking.

BRASS AND COPPER WIRE—No discount is now allowed to the jobbers, and, as a result of the advance in copper, a further rise in prices is quite probable in the near future, and makers will not accept any large contracts ahead except on open terms. Prices are now quoted net as follows delivered f.o.b. cars only, at Montreal: Brass wire, Nos. 3-10, 18½c.; 11-16, 19c.; 17-18, 19½c.; 19-20, 20c.; 21, 21c.; 22, 22c.; 23, 23c.; 24, 24c.; 25, 26c. Copper wire, Nos. 0-10, 22c.; 11-16, 23c.; 17-18, 25½c.; 19-20, 26½c.; 21, 27½c.; 22, 28c.; 23, 29c.; 24, 30c.; 25, 32c. Extras, net: 1-lb. rings, 1c. per lb.; ½ and ¼-lb. rings, 2c. per lb.; 1 and 2-oz. rings, 4c. per lb.; brass spring, 2c. per lb. Extra for tinning, net: Nos.

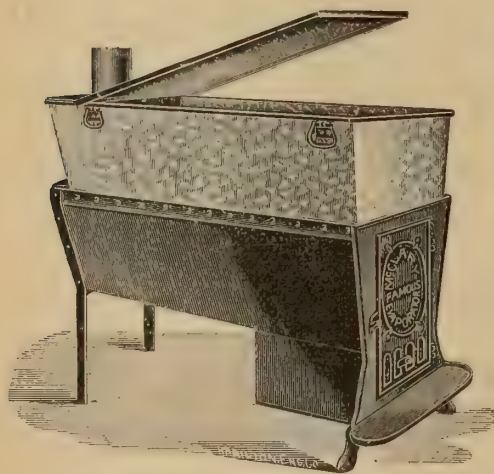
8 and heavier, 2c. per lb.; 9 to 12, 2½c. per lb.; 13 to 14, 2¾c. per lb.; 15 to 17, 3c. per lb.; 18 to 19, 4c. per lb.; 20 to 24, 5c. per lb.

WIRE NAILS—A further advance is noted in the price of wire nails, as a result of the advanced cost of raw material and the increased prices asked by makers. Prices, however, f.o.b. Montreal are still away below what is being asked in Toronto, as small lots are quoted f.o.b. Montreal at \$1.85, and car lots at \$1.80 per keg.

CUT NAILS—These rule quiet and unchanged at \$1.75 f.o.b. Montreal, with the usual rebate of 5c. per keg.

HORSE NAILS—The movement in these has been more active this week, and values are firm, discounts being 50 per cent. on Standard oval head, and 50 and 20 per cent. on Acadia countersunk.

HORSESHOES—Business has been moderately active during the week. We quote: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.



MILK CAN and DAIRY TRIMMINGS

Milk Can Trimmings Creamery Can Trimmings

A full stock of tinned sheets for milk cans and cheese vats always on hand at lowest market prices.



FAMOUS EVAPORATOR OR... Feed Boiler.

CAN ALSO BE USED FOR MAKING SAP.
BEING LIGHT, CAN READILY BE
CARRIED INTO THE BUSH.

Boiler made of galvanized iron with tight seams, galvanized cover. Fire box has cast iron grates and linings, with steel flues, so protected as to prevent warping. Heat passes over the entire bottom of boiler.



Mica Creamery Gauge Patented

Cannot Leak

Cannot Break.

For prompt shipment
order from McClary's.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



Apollo is malleable and bendable, far beyond other makes of galvanized iron; and flat; and uniform.

No other approaches Apollo.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks .. { **FIRE
BUILDING
PAVING**

Sand ... { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

SCREWS—Demand is brisk for screws at the rise. Discounts are: Flat head bright, 85 and 5; round head do., 77 and 5; flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass, flat head, discount 25 per cent.; round head, 20 per cent.

BOLTS—Trading in these has been more active, and the tone is firm. Discounts are as follows: Carriage bolts, $\frac{1}{4}$ to 5-16, 70 per cent.; $\frac{3}{8}$ and up, 60 and 10; machine bolts, $\frac{1}{4}$ and 5-16, 70 per cent., and $\frac{3}{8}$ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—This line is firm in tone, and higher prices are asked for iron washers. Discounts are: 65 per cent. on black and tinned and 40 per cent. on copper.

CORDAGE—No further alteration has been noted in rope and demand is rather quiet. We quote as follows: Sisal, $9\frac{1}{4}$ to $9\frac{3}{4}$ c. for 7-16 and upwards, and manila, $10\frac{1}{4}$ to $10\frac{3}{4}$ c.; smaller sizes, 1c. advance on these figures.

CHURNS—Business is quiet and prices are steady.

CLOTHES WRINGERS—There is a fair inquiry for these, and values are steady in tone at \$26 to \$30, as to brand.

HINGES—These are in moderate demand and firm. We quote as follows: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

CEMENT—There has been very little doing in English or Belgian cement for import as yet, but values are firm, and high-grade Belgian brands are 6d. per cask higher at primary points than they were this time last year. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Fairly active and steady at \$18.50 to \$24 per 1,000, as to brand.

METALS.

The strength in heavy iron and metals, noted from week to week since the year opened, continues unabated, and there have been further advances in several of the leading metals and the strength has become so marked that no one cares to predict when the rise will cease. As a result of the strength of the market importers and jobbers manifest a keen desire to place forward orders for supplies, but both domestic and foreign sellers are pursuing a very conservative course, and in many lines refuse to take forward orders, unless subject to a rise.

PIG IRON—The firm tone noted on this metal last week continues, and both in Great Britain and the States higher prices are being asked, another advance of 25c. per 100 lb. being reported from Pittsburg for No. 1 iron. Accordingly, prices here

SHEET Iron, Steel, and
Tinned Iron,
Zinc, Copper,
Lead and Brass
PLATES
Tin, Terne
and Canada,
Galvanized
Canada

Best brands at lowest prices.

A. C. LESLIE & CO.

MONTREAL

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

are very firmly held. We quote Scotch pig at \$18.25 to \$19.50 for Summerlee and equal brands. No. 1 Hamilton, \$15.50 to \$16, and Ferrona, \$15.50 to \$16.

BAR IRON—While there has been no quotable change in the range for bar iron, a much firmer feeling prevails, and sellers will no longer cut prices in order to secure an order, as they did a very short time ago. For small lots the jobbing basis is firm at \$1.45, and for round lots \$1.40 is now the inside price.

HOOPS AND BANDS—Without change, and inclined to be dull at \$2.

SHEET STEEL—Business is light but prices are firm. We quote: 10 to 16 gauge, \$2.15; 18 to 20 gauge, \$1.90; 22 to 24 gauge, \$2.10; 26 gauge, \$2.20, and 28 gauge, \$2.25.

SHEET IRON—Quiet and steady.

GALVANIZED IRON—Buyers manifest the same keen anxiety to place import orders, and prices show an advancing tendency. On spot, however, no change is noted from stock, and we quote: No. 28 "Queen's Head," \$4.10 to \$4.15, and "Comet" brand, \$3.75.

INGOT COPPER—There has been another advance of \$1 per 100 lb. in New York, and English markets are also higher. Accordingly, prices are firm at 16½c., and likely to advance on that price.

SHEET COPPER—This line is naturally strong, in sympathy with the black material. We quote: 16 oz., 18½ to 19c., and 14-oz., 20 to 20½c.; tinned copper, 16-oz., 21c.; 14-oz., 22c., and planished 14-oz., 27c.

INGOT TIN—The advance in this metal has been firmly held, and values here are stiff as last quoted. We quote Lamb and Flag, 27½c., and Straits, 27c.

PIG LEAD—Strong, in sympathy with outside markets, at \$3.90.

IRON PIPE—Raw material is advancing, and values are firmly held. We quote as follows: Black pipe, ¼-inch, ¾-inch, and 1-inch, \$2.35; ¾-inch, \$2.80; 1-inch, \$3.85; 1½-inch, \$5; 2-inch, \$6.70, and 2½-inch, \$9. Galvanized, ¾-inch, \$3.95; 1-inch, \$4.80; 1½-inch, \$6.65; 2-inch, \$9.15; 2½-inch, \$11.75, and 3-inch, \$16.

LEAD PIPE—In fair demand, and steady at 7c. for ordinary, and 7½c. for composition waste, with 25 per cent. discount.

CANADA PLATE—For importation higher prices are asked, but spot prices are unaltered. Demand is more active. We quote: 52's, \$2.15 to \$2; 60's \$2.30; 75's, \$2.35; full polished, \$3; galvanized Canada plate, 52's, \$3.75.

TIN PLATES—While values are not quotably altered, an advance is not improbable owing to the tendency of outside markets. We quote: Coke, I.C., \$2.90 to \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.25; do, I.X., \$4.10 to \$4.25; Lincoln, \$3.50; P.D. Crown, I.C., \$3.95; do, I.X., \$4.95; Bradley's, \$5.75.

TERNE PLATE—Firm, in line with other material, at \$6 to \$6.25.

COIL CHAIN—Quiet, but steady. We quote: ¼-inch, \$4.75 5-16, \$3.50; ¾, \$3.15; 7-16, \$3; ½-inch, \$2.80 and ¾ up, \$2.80.

SHEET ZINC—There has been an advance

in spot prices, and values are now firmly held at 7¼ to 7½c.

SOLDER—This material has also been marked up on last week's level, 14c. now being asked for it.

ANTIMONY—Quiet and unchanged at 9½c.

SPELTER—In fair demand, and values are firm, in sympathy with outside markets, at 6c. for American and 6½c. for V.M.

GLASS.

Window glass has been asked for more freely for forward delivery. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Considerable activity prevails among manufacturers, doubtless in anticipation of higher prices. Last week we reported an advance in paris green, consequent upon the great advance in copper sulphate. The price is well maintained. Cable advices announce a further important advance in pig lead amounting to £1 per ton in two weeks. This will have an early effect on all lead products. Already red lead and litharge are marked up ¼c., but there has not yet been any change in white lead. Mixed paints are being freely ordered, and some improvement in prices may be looked for. Linseed is cabled higher, and an advance may be expected in a day or two. Turpentine is without change, and business is light, owing to various high prices quoted. Varnishes, colors and paints are in good demand at quoted prices.

WHITE LEAD—Best brands, Government standard, \$5.62½; No. 1, \$5.25; No. 2, \$4.87½; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, 4½c.; kegs, 4¾c.; No. 1, casks, 4¼c.; kegs, 4¼c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Quiet at 8¼ to 8½c.

SEAL OIL—37 to 40c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ¼-lb. packages, 16½c.; 1-lb. tins, 15½c.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

**JOHN FORMAN, 650 Craig Street
MONTREAL**



Force
Lift
Cistern

Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDUGALL CO., Limited

Galt, Canada.

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited

BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.



"BUILD TO-DAY THEN,
STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
—Longfellow.

DO YOU?

WISH THUS TO BUILD
an
advertisement
in the
CONTRACT-
RECORD.

TORONTO
will bring you
tenders from the
best contractors

PETROLEUM.

The petroleum market is firmer, Canadian refined advancing $\frac{1}{2}$ c. per gallon. We quote: "Crown Acme," $15\frac{1}{2}$ c., Canadian refined, $14\frac{1}{2}$ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, $19\frac{1}{2}$ c.

ASHES.

There has been no change in ashes. We quote: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Quiet and steady. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Both sheet zinc and solder have been marked up quite sharply for spot sales.

Canadian refined petroleum has advanced $\frac{1}{2}$ c. per gallon, and is firm at the rise.

There has been another advance of \$1 per 100 lb. in ingot copper at New York.

Belgian brand of cement is cabled 6d. per cask higher for spring shipment than it was last year.

Jobbers here have at last advanced their price on wire nails, but are still below a parity with makers' prices.

W. L. Haldimand & Son, the Montreal agents for the Dowswell Manufacturing Co., Hamilton, say the demand for egg crates is phenomenal, and they cannot begin to get them fast enough to supply the demand.

ONTARIO MARKETS.

TORONTO, Feb. 3, 1899.

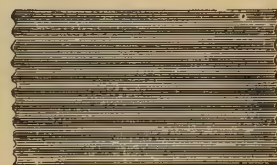
HARDWARE.

WHILE necessarily not large, the volume of business, however, for this time of the year is good, and a generally satisfactory feeling prevails, particularly in view of the fact that prices in practically every line appertaining to hardware are advancing. The most interesting feature in the trade continues to be the strength of wire and wire nails. Although no further advance on last week's prices is to be noted, the market is actually stronger than it was a week ago, and further advances may be looked for at any moment. Green wire cloth has advanced, being now quoted at \$1.20. Cut nails are beginning to experience a little better demand on account of the high price of wire nails. The horse nail and horseshoe business is just moderate. The screw trade continues good, with prices firm. The demand for stove and tire bolts continues good, but there is not much doing in rivets and burrs. Rope remains as dull as ever. Churns are meeting with a good demand, and a fair business is being done in clothes wringers. There is very little doing in building paper. Jobbers are beginning to

There's Certainty

IN CHOOSING

"OWL" BRAND CORRUGATED IRON



It is always reliable—made from the best English or American sheets—absolutely free from scale, pinholes or other defects.

In it the corrugations are **pressed**—not rolled—one at a time, and as each sheet is accurately squared before being pressed they fit perfectly at ends and sides without waste.

Send us your specifications.

We supply any gauge or size up to 120 x 33 in.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

book orders freely for rubber hose. A feature of the market is the withdrawal by the manufacturers of the prices on brass nails, copper nails and brass shoe rivets. A good many orders for future delivery are being booked for general hardware.

BARB WIRE—The market continues strong at firm and unchanged prices. We now quote f.o.b. Toronto: Four-point, \$2.10; 2-point, \$2.15; safety barb wire, \$2.25. Staples are also dearer, being quoted 25c. higher at \$2.50 per 100 lb. for galvanized, and \$2.25 for bright.

PLAIN WIRE—A good many orders for oiled and annealed wire for future delivery are being booked. The market continues strong with an upward tendency. The discount on bright and annealed wire is 30 per cent.; on coppered tin, 25 per cent., and on brass and coppered wire the discount is 10 per cent. off the list. All these quotations are f.o.b. Montreal. Galvanized fencing wire f.o.b. Toronto is quoted as follows: No. 9 \$1.85 per 100 lb.; No. 12, \$1.95, do.; No. 13, \$2.05, do.

WIRE NAILS—While there has been no actual change in quotations since last week, the feeling is stronger, and a further appreciation in prices is likely to take place at any moment. The idea for carload lots is still \$1.95 f.o.b. Toronto, and for smaller lots \$2. At the prices now ruling there is less disposition than ever to do business, and both manufacturers and jobbers are holding back from accepting business. The bid of a jobber for 500 kegs of wire nails at \$2 f.o.b. factory point, was this week refused by a manufacturer. It is the general opinion that it will not be long before wire nails touch \$2.25 per keg. In the United

States prices are higher than they were at our last review.

CUT NAILS—While these are yet by no means active, they are experiencing a better demand than they did. This is generally attributed to the high price of wire nails. We quote \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—The jobbing trade is experiencing a fair demand, although the manufacturers at the moment do not seem to be doing much business. Discounts are: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business in this line is just moderate. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—A nice trade is still being done in this line with prices firm. We quote discounts: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

BOLTS—The improvement noted last week in the demand for tire and stove bolts, has increased rather than decreased. We quote as follows: Common carriage bolts, $\frac{1}{4}$ to 5-16 inch, 70 per cent.; ditto, $\frac{3}{8}$ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 60 and 10 per cent.; coach screws, 70 and 10 per cent.; blank bolts, 60 per cent.; sleigh shoe bolts, 80 per cent.;

plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, $4\frac{1}{4}$ c.; hexagon, $5\frac{1}{4}$ c.

RIVETS AND BURRS—The demand for this line of goods is quiet and without special feature. We quote as follows: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 40 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—No improvement can yet be noted in the demand for rope. The market for hemp abroad keeps steady. We quote: Sisal, 7-16 in. and larger, $9\frac{1}{4}$ c.; $\frac{3}{8}$ in., $9\frac{3}{4}$ c.; $\frac{1}{2}$ and 5-16 in., $10\frac{1}{4}$ c.; Manila, 7-16 in. and larger, 10c.; $\frac{3}{8}$ in., $10\frac{1}{2}$ c.; $\frac{1}{2}$ and 5-16 in., 11c.; deep sea line, $13\frac{1}{2}$ c. for water laid, and $14\frac{1}{2}$ c. for machine-made; hemp, 7 to 9c.; lath yarn, $8\frac{3}{4}$ c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A good business is being experienced in this line at unchanged prices. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Naturally, at this season of the year, there is not much business being done. Local stocks are in a little better shape than they were, some shipments having been received. We quote as follows: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—Prices have been advanced to \$1.20 per 100 square feet, and a further appreciation is anticipated, as the Canadian makers are likely to follow the United States market.

CEMENT—No change. A fair trade is reported. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do, \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

METALS.

There is a general tendency all along the line to an advance in the price of metals, and our quotations on tin, copper, Canada plates, galvanized iron, etc., are all higher. Chain is also dearer.

PIG IRON—The market continues firm with a fair demand.

BAR IRON—A fair business is being done at \$1.45 from stock and \$1.35 from factory.

BLACK IRON—Business is beginning

to improve in this line. We quote as follows: 10 to 12 gauge, \$2.25 to \$2.40 per 100 lb.; 14 to 16 gauge, \$2.60 to \$2.70; 18 to 20 gauge, \$2.30 to \$2.40; 22 to 24 gauge, \$2.25 to \$2.35; 26 gauge, \$2.30 to \$2.40; 28 gauge, \$2.45 to \$2.55.

SHEET STEEL—Business moderate. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

GALVANIZED IRON—The tendency of the market is still upward, but there is not a great deal of business being done. We quote: "Queen's Head," 16 gauge, \$3.75; 18 to 24, \$4; 26 gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3.25; 18 to 24, \$3.40; 26 gauge, \$3.65; 28 gauge, \$4. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. In "Queen's Head," less than case lots are quoted 25c. per 100 lb. higher than above figures.

INGOT COPPER—The demand is good and prices higher at $17\frac{1}{2}$ to 18c. per lb.

PIG TIN—Further advances have been made in the outside markets, and local quotations are $27\frac{1}{2}$ c. per lb. for Straits and 28c. for "Lamb" and "Flag." Jobbers are experiencing a fairly good demand.

PIG LEAD—Prices are $\frac{1}{4}$ c. per lb. higher, imported being quoted at $4\frac{1}{4}$ c. per lb. and domestic at 4c.

LEAD PIPE—Business is light. We quote: Ordinary pipe, 7c., and composition waste, $7\frac{1}{2}$ c., with 25 per cent. discount.

IRON PIPE—Trade is dull in this line.

We quote: Black pipe, per 100 feet, $\frac{1}{4}$ to $\frac{3}{8}$ inch, \$2.30; $\frac{1}{2}$ inch, \$2.30; $\frac{3}{4}$ inch, \$2.75; 1 inch, \$3.85; $1\frac{1}{4}$ inch, \$5.05; $1\frac{1}{2}$ inch, \$6.60; 2 inch, \$8.90. Galvanized, $\frac{1}{2}$ inch, \$3.95; $\frac{3}{4}$ inch, \$4.80; 1 inch, \$6.75; $1\frac{1}{4}$ inch, \$9.15; $1\frac{1}{2}$ inch, \$11.75; 2 inch, \$16.

RANGE BOILERS—Trade keeps fair and prices are higher. We quote: Galvanized, 30 gals., \$5.50; 35 gal., \$6.50; 40 gal., \$7.50; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—Prices are 10 to 25c. higher. The little business that is being done is chiefly in booking orders for future delivery. We quote: All-bright, \$3.10; half-polished, \$2.60; all-dull, \$2.50.

TIN PLATES—Bright coke plates are quoted from 10 to 25c. per lb. higher, I.C. now being quoted at \$3.15 to \$3.25, and 20 x 28 at \$6.25 to \$6.50 per lb.

COIL CHAIN—Coil chain of American manufacture has been advanced \$2 per ton. We now quote: 3-16 in., \$7; $\frac{1}{4}$ in., \$6; 5-16 in., \$3.50; $\frac{3}{8}$ in., \$3.15; 7-16 in., \$2.95; $\frac{1}{2}$ in., \$2.80; $\frac{5}{8}$ in., \$2.70; $\frac{3}{4}$ in., \$2.60.

SHEET ZINC—Business is moderate and prices firm. We quote $7\frac{1}{4}$ c. for cask lots, and $7\frac{1}{2}$ c. for smaller lots.

ZINC SPELTER—The market keeps steady as to price. We quote $5\frac{3}{4}$ to 6c. for imported.

SOLDER—Prices are firm. We quote: Half-and-half, at $16\frac{3}{4}$ to $17\frac{3}{4}$ c. per lb.; refined at $16\frac{1}{4}$ to $16\frac{3}{4}$ c. per lb., and plumbers' at $15\frac{3}{4}$ to $16\frac{1}{4}$ c. per lb.

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PAINTS AND OILS.

Shipments during the past week have been rather light, the severe weather checking operations. Travelers, however, report a pretty fair business, and a good feeling of confidence throughout the Province. Dry white lead is very high at primary points, and, at the end of the present month, a rush of orders is looked for, as the stocks which grinders in Canada have in hand will soon be exhausted if the present demand keeps up. Paris green is meeting with a good sale at the advance of 2c. noted last week. The chief manufacturers of this article are in Montreal, and they report that they will commence shipping about 200 tons of it early in March. Linseed oil is firm, some dealers quoting an advance of one cent. There is no change in the situation regarding turpentine. The stability of the price of this material is puzzling the largest dealers. The general opinion is that the present situation is due to stock manipulation in the primary market. Dealers throughout the country are buying from hand-to-mouth. All varnish gums are extremely firm. Damar is difficult to get, so manila and kauri parcels are quickly picked up as soon as offered. General lines of paints, colors and varnishes are selling well, with no material change in prices. Sulphate of copper, used for spraying purposes, is stiff, as $6\frac{1}{2}$ to $7\frac{1}{2}$ c. per lb. There is no change to note. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$5.75; No. 1, \$5.37½; No. 2, \$5.00; No. 3, \$4.62½; No. 4, \$4.25; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.75; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to $6\frac{1}{2}$ c.; orange mineral, $6\frac{1}{2}$ to $7\frac{1}{2}$ c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, $9\frac{1}{2}$ c.

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

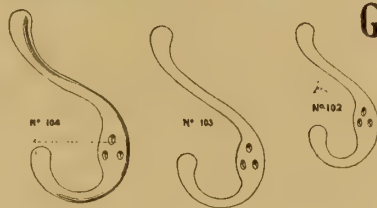
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per lb. and $10\frac{1}{2}$ c. for single tins; United States, in cases, $8\frac{1}{2}$ c., and $9\frac{1}{2}$ c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The movement from stock is fair. The import order business is on with all the keenness and bitterness of modern business warfare. The competition for orders is keen as ever, but business, on the whole, seems to be on a more satisfactory basis than it has been in former years. The prospects are that sales for import will be considerably greater than last year. No change in price is noted. We quote: Star, first break in 50-foot

boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

No change. Demand active throughout. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per per lb.; bottoms, 8c.; heavy copper, $8\frac{1}{4}$ to $8\frac{1}{2}$ c.; light scrap brass, 4 to $4\frac{1}{2}$ c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, $7\frac{1}{2}$ c.; scrap lead, $2\frac{1}{8}$ to $2\frac{3}{8}$ c.; zinc, $2\frac{1}{4}$ c.; scrap rubber, $3\frac{1}{2}$ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c per 100 lb.

HIDES, SKINS AND WOOL.

HIDES—A slightly weaker feeling is noted, but no change in prices has yet ensued. We quote cow hides as follows: No. 1, $8\frac{1}{2}$ c.; No. 2, $7\frac{1}{2}$ c.; No. 3, $6\frac{1}{2}$ c.; cured, $9\frac{1}{4}$ c. Steer hides are worth $\frac{1}{2}$ c. more.

CALFSKINS—We quote nominally: No. 1

veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c.

SHEEPSKINS—The market is firm for sheepskins and lambskins at 85c.

WOOL—No change. Market weak. We quote fleece at 15c. and unwashed at 10c.

SEEDS.

The market is demoralized. Alsike is uneasy at a decline of 50c., which brings the price to \$2.50 to \$3.50. Good to choice red clover has also declined 25c., and is now quoted at \$3 to \$3.50. Scarcely any timothy is offered, except an occasional lot of machine-threshed, which is quoted at \$1 to \$1.25. No flail-threshed is offering, but bright unhulled stock is worth \$1.60 to \$1.75.

PETROLEUM.

A good business is reported. Prices are unaltered. We quote at Toronto: Canadian, 13½c.; Sarnia water white, 15c.; American water white, 16½c.; Pratt's astral, 16c., in bulk.

COAL.

Prices are firm, but no change is noted. The demand is greater than the ability of the transportation companies to carry, so the scarcity of small sizes is still felt. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

All quotations for copper are higher.

Coil chain of American manufacture is \$2 per ton dearer.

Green wire cloth is dearer at \$1.20 per 100 square feet.

Local jobbers report that the demand for the "Leader" churn is steadily increasing.

The manufacturers have withdrawn prices on brass nails, copper nails and brass shoe rivets.

Bright coke plates are quoted 10 to 25c. per 100 lb. dearer. Tinned sheets are ¼c. per lb. higher.

The Toronto branch of The Canada Screw Co., now situated at No. 77 Bay street, will, in a few weeks, remove to No. 69, the same street, the premises formerly occupied by Craig, MacArthur & Co.

The Ontario Lead and Wire Co., Limited, is paying more than usual attention this year to rubber hose, and, with that end in view, is stocking heavily. "Ontario," "Crescent" and "Diamond" are the company's special brands.

NEW YORK METAL MARKET.

Pig Tin—London cables quoted another sharp rise in prices, and the New York "official" disappearance of the premium on spot tin was not in evidence despite the fact that 800 tons arrived on the John Sanders in addition to moderate quantities

from Europe. The existing spot stock, for that matter, is under remarkably good control, as is also the tin due to arrive during the next thirty days. In jobbing way, 24¾ to 24⅞c. was realized here, and good-sized lots could have been picked up at little, if anything, below that price at the close. Most holders asked 24¾c. at the close for 5-ton lots. In futures, there was no "black-board" business, nor other display of purely N.M. speculative interest, but higher prices were named for current month delivery that left no margin between the same and the figures asked for February.

COPPER—The market remains decidedly strong. There is considerable export business, and indications are not wanting that more is being put through quietly on home account than appears in current reports. Lake Superior ingot is quoted at 16½ to 16⅝c., electrolytic bars, etc., at 16¼ to 16⅜c., and ordinary casting stock at 16 to 16¾c., as to brand.

PIG LEAD—Dealings here were on a smaller scale and the demand showed less vigor than it did on Saturday and Monday. The market lost nothing in point of substantial or superficial firmness, however, either here or at primary points. On spot and early deliveries about 4.50c. was generally quoted.

SPELTER—Offerings here and for early shipment are very moderate. Not only that, but delays in deliveries seem somewhat frequent and holders are now asking 5.75 to 5.80c. for good western brands delivered.

ANTIMONY—There is moderate business only, and prices remain at 8¾ to 9½c., as to brand.

TINPLATE—Orders are not coming in very freely, yet quite a good amount of business goes through, and prices are held firmly.

IRON AND STEEL—The entire market is steady to firm, with good general movement of crude material and the more staple finished products.

CATALOGUES, BOOKLETS, ETC.

A GOOD CALENDAR.

WHEN a merchant has made a progressive step, it is to his advantage to make that fact known. Jas. W. Fullbrook, hardware dealer, etc., Stone-wall, Man., during the past year, moved his business into an unusually fine-looking store. The calendar he issued this year contains a four-by-seven-inch half-tone cut of the building, as well as the firm style and address and the monthly calendar pads. The whole calendar is well designed and printed.

"FILE PHILOSOPHY."

"File Philosophy" is the subject of a dainty, and, at the same time, practical

booklet just issued by The Nicholson File Co., of Providence, R.I. It treats briefly, and yet comprehensively, of the general classification of files and definition of file terms; the proper methods of handling and using files so as to secure the best results; and a description of the most common files, and the ordinary uses to which they are applied and for which they are best adapted. It thus covers all the points which most interest and concern file-users, and will be found by them a most readable and valuable book.

The book is really an abridgment of The Nicholson Co.'s "Treatise on Files" which was published in 1878, and which has always been accepted by the craft, and trade in general, as the authority on all matters pertaining to files. This treatise is the foundation of everything that has been written or spoken about files since its publication, even being used by other manufacturers quite generally as the basis of their trade literature and catalogues, and, by adhering to its substance, The Nicholson Co. wisely concluded that they would make the "Philosophy" of most service to the file users of the world. It is in response to a continued demand for this treatise, now out of print, that the present "Philosophy" is published. The matter is carefully compiled and edited, illustrated with helpful plates, and altogether affords a most valuable addition to the body of popular literature on scientific subjects. Moreover, its brevity and convenient size render it the more acceptable.

It is a book which all interested in files will do well to procure, and may be had upon application to The Nicholson Co.'s main office in Providence.

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Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

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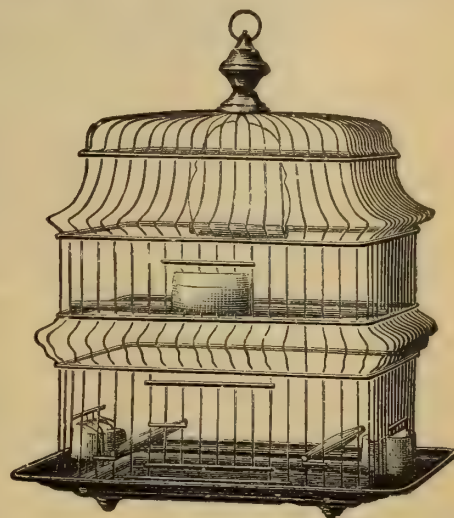
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We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

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ARCADE FILE WORKS' NEW BOOK ON FILES.

FROM advance sheets of the new book on files, now being prepared by Prof. W. H. Vandervoort, we are permitted to make the extracts which follow. The volume is being prepared under the auspices of the Arcade File Works, Anderson, Ind., and No. 97 Chambers street, New York, and, when completed, will be forwarded to all dealers and users of files, who have

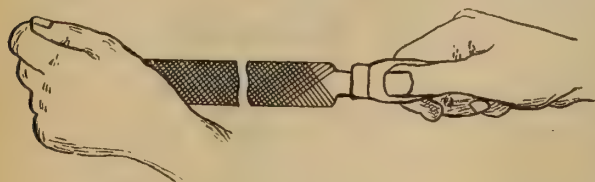


Fig. 1.

requested a copy in advance of publication. As the edition will be a limited one, early application for a copy would be recommended.

ON CROSS FILING.

The term "cross-filing" applies to those filing operations in which the file is pushed endwise across the work. When in cross-filing the character of the work requires a heavy file, it should be held in both hands, as shown in Fig. 1, the end of the handle abutting against the palm of the hand, thus

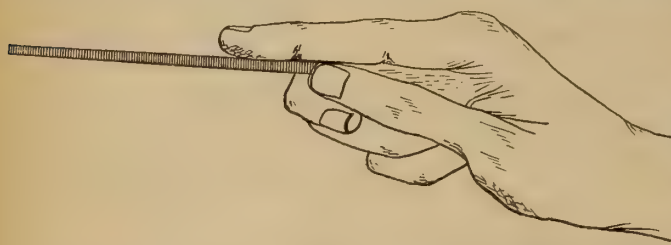


Fig. 2.

giving a good bearing to receive the thrust on the work stroke. When held in this manner an extremely tight grip is not required, which makes it much easier on the fingers and enables the workman to more readily control the file.

When a very light file is being used on fine work, it is usually best to hold it in one hand, as shown in Fig. 2. In this case the thumb rests against the side of the file just ahead of the handle, and the free finger extends along the top, considerable downward pressure being exerted by this finger,



Fig. 3.

as near as possible over the working surface of the tool.

When the file is of medium size and thin, if held as shown in Fig. 1, the pressure at the ends will bend them under surface, which will

cause it to cut away the metal at the edges, as shown in Fig. 3. If, however, it is held as shown in Fig. 4, the downward pressure of the thumb will spring the file at the opposite direction, and thus enable the operator to move it across the work without cutting away the edges. When the thumb becomes tired, the position shown in Fig. 1 can again be taken, the ball of the thumb bearing down hard on the file and the fingers lifting at the point accomplishing the same object. Either of these methods of holding are difficult

to maintain for more than a few moments at a time, consequently a stiffer file, having considerable belly, is preferable on work of this character.

The value of a good file handle should be appreciated. It should be of good size, well formed, smooth, properly ferruled, and, most important of all, so secured to the tang that its centre line is parallel with the length of the file. Handles made of soft, tough wood are preferable, as they are lighter and less liable to crack when forced on the tang. The soft wood handle, if provided with a hole for the reception of the tang of a diameter slightly greater than the

thickness of the tang, can be driven on without danger of cracking. If of hardwood, a good job requires heating the tang red hot and burning the hole in the handle to fit it. Care must be exercised, or the temper of the teeth near the heel will be drawn. A piece of wet waste wrapped around the heel will prevent this.

When the work surface is so broad that the file cannot be held, as shown in Fig. 1, on account of the handle striking against the edge of the work, a surface file holder must be used. In Fig. 5 is shown such a holder. The bottom of the handle is provided with a tapered, dove-

tail slot to receive the tang, the outer point resting on the top of the file. Before applying the handle, file the edges of the tang to approximately fit the dove-tail slot, as this may save a jammed set of knuckles. In using a file with this holder, the fingers of

the left hand, resting on the top of the file, must give nearly all the pressure necessary to make it cut.

The form of surface file holder shown in Fig. 6 possesses the advantage of giving the operator a handle similar in shape and position to that used on ordinary narrow work.



Fig. 4.

The rod enables the left hand to so grasp the point of the file that the downward pressure may be applied with less fatigue to the hand than in the case shown in Fig. 5. When the handle is screwed tight against the shoulder, the rod draws up on the point, thus tending to give the file more curvature, an advantage of considerable moment in filing accurate plane surfaces.

The above "talk" treats of the rudimentary part of file work, and a careful



Fig. 5.

reading will help beginners, but no matter how experienced a workman may be, he cannot get the best results unless he has a good file. In connection with this suggestion, reference is made to advertisement on page 23.

A NEW INDUSTRY.

The Union Hardware Co., of Torrington, Conn., who have been so successful in their business relations in Canada in the past, are so sanguine of the future outlook that they have decided to remove a part of their work,

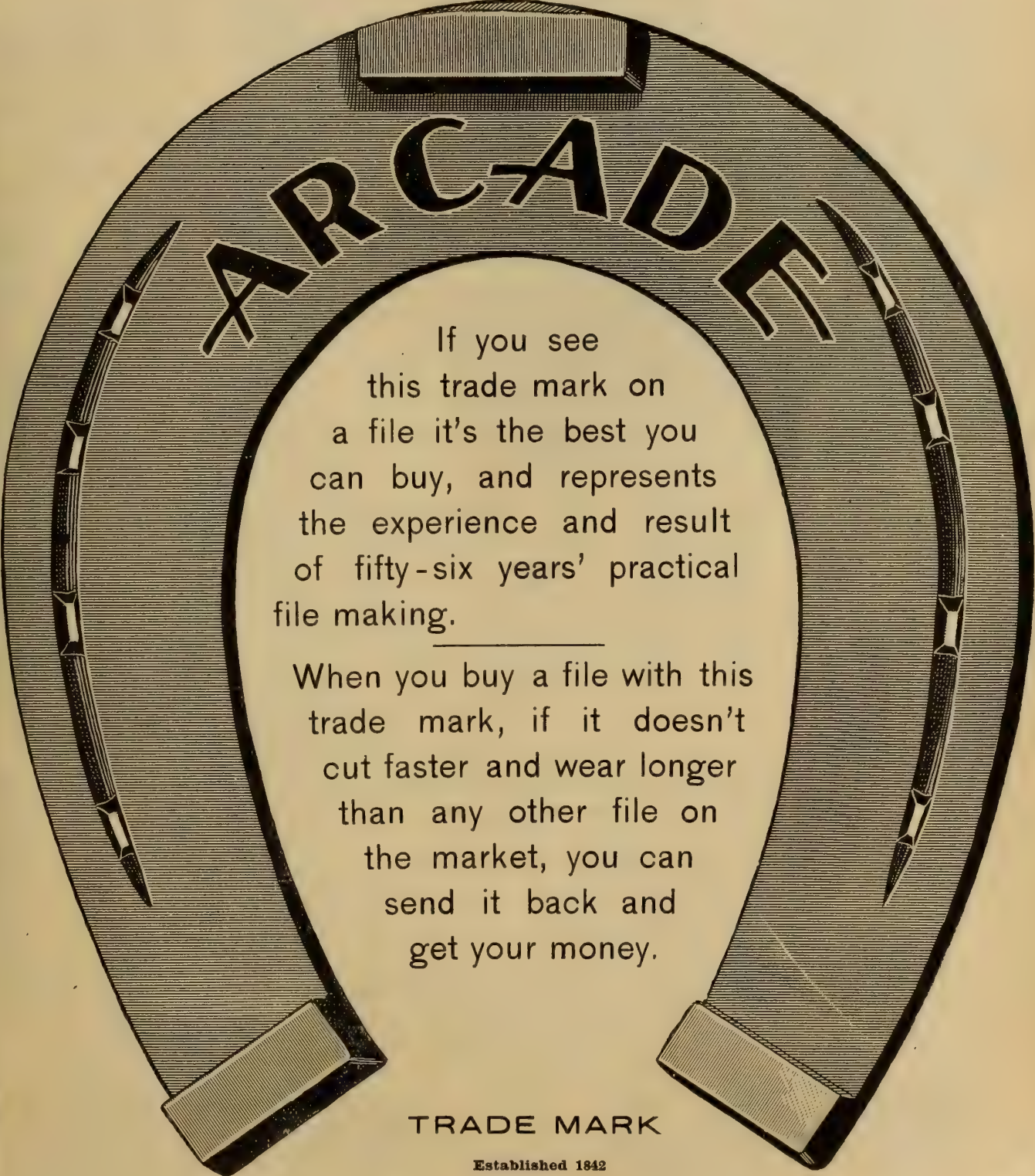


Fig. 6.

to Canada. They have secured premises in Montreal, and have a large staff at work on their skates, getting a stock ready for next season's business. The Canadian business will be managed by T. W. Bryant, and their office will be 40 Nazareth street.

Fifty-Six Years Making Files

We ought to know how.



ARCADE

If you see
this trade mark on
a file it's the best you
can buy, and represents
the experience and result
of fifty-six years' practical
file making.

When you buy a file with this
trade mark, if it doesn't
cut faster and wear longer
than any other file on
the market, you can
send it back and
get your money.

TRADE MARK

Established 1842

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works, ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MANITOBA MARKETS.

WINNIPEG, Jan. 29, 1899.

THERE is no change in prices to record for the week. All lines are firm and advances are still looked for. There may be some considerable change next week.

Travelers are on the road with spring samples and orders are beginning to come. Stocktaking is finished and all hands are preparing for heavy spring trade.

Prices for the week are as follows :

Barb wire, 100 lb.	\$2 50
Plain twist	2 40
Wire and staples	2 90
Oiled annealed wire	2 80
"	11
"	12
"	13
"	14
"	15
Wire nails, 30 to 60 dy, keg.	2 35
" 16 and 20	2 40
" 10	2 45
" 8	2 50
" 6	2 65
" 4	2 75
" 3	3 00
Cut nails, 50 and 60 dy.	2 15
" 20 to 40	2 20
" 10 to 16	2 25
" 8	2 30
" 6	2 35
" 4	2 60
" 3	2 85
" 3 fine	3 15
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes	4 25
Steel, light.	4 00
" extra light.	5 75
Bar and band iron, \$2.05 basis.	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 to 24 gauge	4 00
26 gauge	4 25
28 gauge	4 50
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tin plate, 1C charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	12 50
Canada plate, 18 x 21 and 18 x 24	3 00
Sheet zinc, cask lots, 100 lbs	8 00
Broken lots	8 50
Pig lead, 100 lbs.	4 25
Wrought pipe, black, ¼ inch	2 50
" ½ inch	2 75
" ¾ inch	3 00
" 1 inch	4 00
" 1 ¼ inch	5 00
" 1 ½ inch	7 00
" 2 inch	8 50
" Over 2 inch	11 50
Rope, sisal, 7-16 and larger	65 p.c.
" ¾	11 00
" ¼ and 5-16	11 50
Manilla, 7-16 and larger	12 00
" ¾	12 50
" ¼ and 5-16	13 00
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 800
Screws, flat head, iron	85 p.c.
Round "	77 ½ p.c.
Flat " brass	80 p.c.
Round "	72 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	28c.
Spades and shovels	40 p.c.
Harvest tools	60 to 60-10 p.c.

Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	58
boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M	16 00
American, M	16 25
Shot, Ordinary, per 100 lbs	6 25
Chilled	6 75
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	.70 and 30 p.c.
Granite ware, according to quality	.50 to 60 p.c.

MONTREAL HARDWARE HOCKEY LEAGUE.

ROLLING MILLS VS. ROBERTSON.

The fourth game in the series was played in the Arena Hockey rink Saturday afternoon, the 28th ult., before one of the largest crowds that ever attended a mercantile game. The contesting teams were Thos. Robertson Co., Limited, and Montreal Rolling Mills Co. The play was fast and exciting, resulting in another win for the "M" brand horseshoe boys by a score of 4—0.

The teams were as follows :

M. R. M. Co.	T. R. Co., Ltd.
O'Dowd	Goal Beatty
G. James	Point Irving
Hough	Cover Point Johnstone
Moore	Forwards Pow
Lawlor	" McKenzie
Wood	" Orsali
A. James	" Vallance
Johnstone	Umpire Hagar
G. Boyd	Timekeeper E. C. Eaton

The games were scored as follows :

1st	M. R. M., Co.	Hough
2nd	"	Moore
3rd	"	Moore
4th	"	Lawlor

Frank Wall, of the Shamrock Hockey Club, refereed the game, his decisions being satisfactory to both teams.

HOWDEN-STARKE VS. PECK-BENNY.

Teams from Peck, Benny & Co. and Howden, Starke & Co. played the second schedule match of the senior league at the St. Lawrence skating rink, Saturday evening, and a fast and closely-contested game resulted in a score of 3 to 2 in favor of The Peck, Benny & Co. team. Mr. L. G. Labelle acted as referee, and gave universal satisfaction, as he always does in like events. The teams were as follows :

H. S. & Co.	P., B. & Co.
Butts	Goal Jones
Allan (capt.)	Point Gillelan (capt.)
Smith	Cover Point Thompson
Adams	Forwards Leahy
Bamford	" Hagarty
Kee	" Robinson
Howden	" Taylor
Givin	Umpire Jarvis
	Referee—L. G. Labelle.

E. A. Peddie, general merchant, Wingham, Ont., is removing to Seaforth, Ont.

THE CANADA PAINT COMPANY LIMITED

OIL,
ZINC,
GLUE,
OXIDE,
PUTTY,
BORAX,
STAINS,
DRYERS,
SMALTS,
FILLERS,
BRONZE,
WHITING,
SHELLAC,
GRAPHITE,
RED LEAD,
VERMILION,
VARNISHES,
GOLD LEAF,
KALSOMINE,
RAW UMBER,
RAW SIENNA,
LINSEED OIL,
TURPENTINE,
LAMP BLACK,
PARIS GREEN,
TUBE COLORS,
TOP DRESSING,
LIQUID PAINTS,
BURNT UMBER,
BOAT VARNISH.
BURNT SIENNA,
PUMICE STONE,
ROOFING PAINT,
YELLOW OCHRE,
GOLDEN OCHRE,
HOUSE VARNISH,
COACH VARNISH,
SHINGLE STAINS,
BICYCLE ENAMEL,
CHROME YELLOW,
GOLD SIZE JAPAN,
GRAINING COLORS,
PURE WHITE LEAD,
DOMESTIC COLORS,
ULTRAMARINE BLUE,
STOVE PIPE VARNISH.
WINDOW BLIND GREEN,
LIQUID COACH COLORS,
PURE PREPARED PAINTS,
TRIPLE STRENGTH COLORS,
SUPERFINE COACH COLORS.

Permanent White,
the Painters' Ideal.

THE CANADA PAINT COMPANY LIMITED



EVERYTHING FOR THE PAINTER.

A Full Line of Sizes and Styles
to Suit all Needs.

"QUICK MEAL"

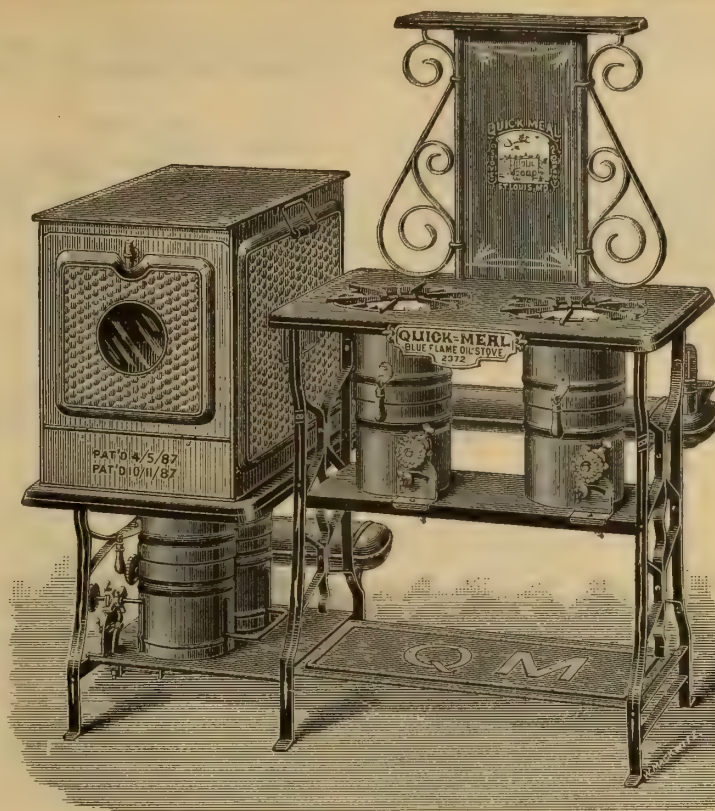
Gasoline and
Blue Flame

Oil Stoves.

offer an excellence proved by 18 years of steadily increasing popularity. They are made to work well and wear well—fitted with every known improvement to add to their efficiency and economy.

In addition to the Wick Blue Flame Oil lines, a full line of "Wickless" Blue Flame Oil Stoves are a special feature of this year's goods.

We are sole agents for Canada for these reliable "QUICK MEAL" Stoves. Shall we send you full information about them?



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

JOHN BOWMAN HARDWARE AND COAL CO.

180 to 182 York Street

LONDON, ONT.

The following tests of the tensile strength of the S. & D. Binder Twine were made from six balls taken at random from the spinners in the presence of the following witnesses:

(Signed)

ROBERT OWEN, General Foreman,
HORATIO DAVIS,
MOSES H. DAY,
JOHN BOWMAN.

Diamond Medal Pure Manilla:	145, 150, 120, 120, 140, 150-lbs.
Mixed Manilla:	139, 139, 130, 150, 135, 136-lbs.
Standard:	115, 103, 109, 107, 80, 145-lbs.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, 1½ to 2½ inches. Price \$1.25 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, - Saint John, N. B., Canada.

Eastern Townships Milk

SEAMLESS RETINNED.



"Aerators"

Strong and neatly made of heavy tin, and retinned.
Easily taken apart to clean.

The THOS. DAVIDSON MFG. CO., Limited
MONTREAL.

THOUSAND-TON SMELTER.

It seems to have been definitely settled that the C.P.R. will erect a huge 1,000-ton smelter at Cascade, B.C., and, according to The Cascade Record, W. H. Aldridge, manager of the Trail Smelter, was recently in that town conferring with the owners of the townsite on matters relative to the erection of the large smelter. Mr. Aldridge is quoted by The Record as saying: "We will probably make it a 1,000-ton smelter, so as to be able to handle all ores that are likely to be offered. We do not believe in erecting a 200 or even a 400-ton plant here, as we would find it more economical to haul the ores to Trail for treatment if no more daily tonnage than that could be obtained in the district."

Mr. Aldridge is further quoted as saying that a smelter of the capacity mentioned would cost more than half a million dollars, and that it would be the means of affording steady employment for upwards of 500 men. Three hundred thousand bricks would be required for the erection of the smoke stack. The reason given for the selection of Cascade as the place at which to erect this monster smelter is said to be in the fact that the high elevation above the river gives ample room for dumping-grounds for the slag for many years, and that good clay is found in abundance there, which can be utilized for making the large quantities of brick required for the main building which will be erected in connection with the smelter. Economical power is right at hand, supplied by the falls near Cascade, and, in fact, Mr. Aldridge is said to regard this site as being unquestionably in possession of "every conceivable advantage for the location and successful operation of an immense smelting industry."

It is said to be the intention of the company to erect in addition to the smelter extensive refineries to be worked in connection with it, and for these enterprises plenty of suitable land is right at hand. The Record closes with the statement by Mr.

Aldridge, "that the C. P. R. had already adopted a most liberal policy in the conduct of the smelter at this point as regards freight and treatment rates. The rate on Rossland ores, since the Canadian Pacific Railway acquired the Trail smelter and railway connections, had been reduced from the high price of \$11.50 to \$7.50 per ton for freight and treatment; then to \$7, and now it was probable another reduction would soon be granted."

This immense smelter, when completed, will be utilized more particularly in the treatment of the Boundary, Christian Lake and Burnt Basin ores.

"THE TIME THEY RING 'EM."

There is an ironmonger in a large town in the Midlands who does a large trade in wedding-rings, and who holds the oldest gold-license in town. A young farmer one day entered the shop, and asked the manager to show him a ring. The manager thought he wanted a wedding-ring, so, taking him to the case where these are kept, he said, "What size do you require?"

"Well," said the farmer, "I ain't particular to a size or two."

"About what price would you like to give?" asked the manager.

"Oh," said the farmer, "I want a fairly good 'un—one as'll fit a eighteen-month-old 'un."

"An eighteen-year-old one, you mean," said the manager, smiling.

"Eighteen-year-old, no; eighteen-month-old, I mean. That's about the time you ring 'em, ain't it?" exclaimed Hodge.

"Ring what?"

"Why, bulls, of course," returned the farmer. "What d'ye think?"

"Oh, I see! you want a bull-ring."

"What else did ye think I wanted?" said the farmer, as he paid for his bull-ring, to the amusement of all the customers in the shop.—W. T. Gadsby, in Ironmonger.

PAINTS FOR ZINC-SHEETS.

A very durable weather-resisting paint for zinc-sheets is made by mixing oxide of zinc with a fluid silicate, such as water-glass and potash or soda, to which the required pigments are added, according to an exchange. The proportion should be about $\frac{3}{4}$ -lb. zinc-white to every pound of silicate, with or without water. This zinc-silicate paint becomes insoluble in water in about twenty-four hours. It is equally useful for interior and outside work, but it should not be applied to greasy surfaces, nor to old coats of paint. New zinc, not being oxidized, should first be prepared by the application of a solution of one part of soda in ten parts of water, and then be washed thoroughly with water only.

To obtain a white color, only pure zinc-white should be used, but an excellent imitation of stone may be prepared by first mixing the proper coloring substance with water to the consistency of thick paste, and then adding this to the mixture of silicate and oxide of zinc. The mixed paint can be kept in a closed vessel from twenty-four to forty-eight hours, provided it is put in a cool place.

Another quick-drying, weather-resisting paint of a dark color is made by mixing 6 lb. of graphite (plumbago) with one gallon of vinegar. The oxidized surface of the zinc, previously well brushed, is painted with the above, one coat giving a sufficiently dark color. New sheet zinc, however, requires two coats, and must first be oxidized by the following application, which is not strong enough to cause any deterioration of the metal: One part each of chloride of copper, nitrate of copper, and sal ammoniac, dissolved in sixty-four parts of water, and one part of hydrochloric acid added to the solution.

These paints should only be applied in warm weather, as they are best kept free from moisture for at least twenty-four hours.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

SISSONS BROS. & CO. of MONTREAL Limited.

Manufacturers

Pure English Varnishes *Mixed Paints* *Colors in Oil* *Dry Colors, etc.*

Proprietors and Manufacturers
"HALL'S PATENT"

Washable *Water* *Paint*

A paint thinned with water—that covers more, stands better and goes further than oil paint.

WRITE FOR FREE SAMPLES AND SHADE CARDS.

TRADE



MARK

Every package bearing this MARK
is fully guaranteed.

C. R. McDOWELL,
Canadian Manager.

Office and Warehouse,
821 Craig St.

Factory, Canal Bank,
.. MONTREAL ..

J. J. ROBERTS.

J. J. ROBERTS, of the advertising firm of Roberts & Co., Winnipeg, is one of the two new men on the present school board, and somewhat of the esteem in which he is held by his fellow members is seen in the fact that although a new man he has been elected to a position on the school management committee—the most important and largest of the board's committees. He is an old countryman by birth, but a thorough Canadian in spirit, and takes the deepest interest in matters pertaining to the education of our youth. Being a man of large experience gained by travel in Europe and Africa, his breadth of view on any subject is a most noticeable feature. Mr. Roberts was born in Corwen, South Wales, his father being a member of a real estate firm. He was educated in a private school and then in the national schools of the country, afterwards attending the University of Edinburgh. He thus became familiar with the school systems of the three countries.

After leaving the university, Mr. Roberts entered the Merchant Trading Service of West Africa, where he had the advantages of much travel. His health failing, he came to Manitoba 15 years ago and traveled over the different parts of the Province, serving in the militia forces in the Rebellion of 1885, under Col. Irvine. During most of the time he had charge of the hospital at Fort Carlton, for it must be remembered that Mr. Roberts is an undergraduate in medicine. He is prominently known in fraternal societies, being the grand high priest in the I.O.O.F., and secretary of St. John's Lodge A.F. and A.M. From his prominence in The Waghorn Guide he is known to many as Mr. Waghorn. He was appointed for three years by the Provincial Government as immigration agent to Wales, during which time he traveled much and delivered many addresses in the interest of his adopted land. He is a representative of ward two, Winnipeg, has no pet schemes to advocate, but being a man in touch with the people will always consider their views and interests first. He believes fully in adapting our system to the needs and requirements of the various classes that form our population, while a strong hand is kept on the extravagant tendencies of those entrusted with this great work.

Mr. Roberts was prominently connected with the inception of Manitoba's new magazine, The Great West, and is the western representative of the MacLean trade journals.

REARRANGEMENT OF THE STOCK.

The unpleasant but necessary process of stock-taking will, I suppose, by this time be

over in most establishments, and the retail ironmonger will, in many cases, have had a clearance sale, remarks a writer in Ironmongery. Where this has been the case, this is just the opportune moment to change the location of some of the goods, and thus avoid an appearance of monotony and sameness in the shop. It is not always necessary to rearrange the fixtures, though, where advisable and practicable, it will add much to the general effect if they

are so disposed as to give some novelty, as well as change to the display of the stock. By effecting all possible alterations at proper intervals it gives customers the impression that the establishment is progressive, energetic, and desirous to please. New goods may be shown to a better advantage, while the old may be given at least the opportunity to be seen in a more favorable light. People like variety more than anything else. Consequently, they like to see the shop participate in variety as far as it is possible.

Trade "DAISY" Mark.



The "Daisy"

REVOLVING
BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Boeckhs' Patent
Bridled Brush

has been fairly and truly tried, and has not been found "wanting" in a single vital point a painter values—large *repeat orders* from progressive dealers everywhere prove these facts beyond a question.

There is nothing to be gained by waiting—except a loss of trade which your competitor will win. Order now and be prepared to answer your customers' questions with the brush itself—"seeing is believing."

Illustrated Catalogue—free.

BOECKH BROS. & COMPANY, Mfrs.
TORONTO, ONT.Montreal Branch—
1 and 3 DeBresoles Street.Agencies at—
Winnipeg, Man., Vancouver, B.C.,
Halifax, N.S., Glasgow, Scot.For
Spring
Painting.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
 Tinplate, Tinned sheets, Terne Plates, Canada Plates Gal-
 vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
 and Steel—Hoops and Bands, Proved Coil Chain, Brass and
 Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE McKINNON BUILDING
 Cor Jordan and Melinda Streets

... TORONTO

Telephone 689.
 Cable "LeVesconte" Toronto.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
 Pumps, Casing, Tubing
 Fittings, Drilling
 Tools, Tables, etc.

ARE YOU A BUYER of

**Hardware, Metals,
 Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest
 issue of **HARDWARE AND METAL**, the lead-
 ing authority on these trades, will be sent to
 you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
 26 Front St. West, TORONTO.
 109 Fleet St., E.C., LONDON, ENG.

The Portland Rolling Mills Co., Limited

Manufacturers of

Refined Bar Iron
 Railway Spikes
 Pressed Spikes
 Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"**

**TIRE UPSETTERS
 WILL UPSET TIRES**

Some machines sold as Upsetters will not.
 Perhaps you make as much money on the
 sale of a useless Upsetter as on a good
 one, but your customer does not. He
 don't want a machine because it is called
 an Upsetter; he wants a machine to upset
 tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
 HESPELER, ONT.**



Factory at
 Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
 being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Store,
 231 and 237 Arch Street.

STEVENS IDEAL, NO. 44:

This is as reliable and
 accurate a rifle as can be
 constructed. Placed at a
 moderate price to meet the
 demand for such a rifle. It
 is recommended without
 qualification and fully guar-

anteed. Made in the following styles :

.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire
 cartridges, 24 inches. Weight 7½ pounds.

.25-20 Stevens C. F., .32-40 C. F., .38-55 C. F., and .44-40 (.44 W. C. F.) Standard length of barrel
 for center-fire cartridges, 26 inches. Weight, 7½ pounds.

Half-octagon barrel, oiled walnut stock and fore-arm, rifle butt, case-hardened receiver, sporting rear
 and Rocky Mountain front sight.

Price, with standard length of barrel, \$13.00.

Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.**Cold Water**

That's all Church's Alabastine needs—
 cold water and it is ready to use. Hot water
 MUST be used with Kalsomines or all other
 Substitutes for this permanent and sanitary
 Water Color Wall Coating—Alabastine.

The "butcher, the baker, the candle-
 stick maker," or anyone else can apply it—COLD water is all
 that's needed—it WILL NOT DECAY ON THE WALLS

16 beautiful tints and white. It saves time and waste and hard work and
 money. Won't rub off or "scale." Hardens with age. No washing or scraping
 of walls necessary.

Church's Alabastine

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETT

DOVERCOURT
 TWINE MILLS

1078 BLOOR STREET WEST,
 TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
 to furnish the best made goods in the market at closest prices and make
 prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,

Cotton and Russian Hemp Plough Lines, plain and colored.

Cotton and Linen Fish Lines, laid and braided.

Netted Hammocks, white and colored, Tennis and Fly Nets.

Skipping Ropes, Jute, Hemp and Flax Twines.

HEATING AND PLUMBING

PLUMBING AND HEATING NOTES.

BUILDING operations are rather quiet this year. During January only \$31,300 of building permits were issued, as compared with \$147,570 in 1898. The large figure last year was due to the erection of several large factories. The only permit of any account issued this week was taken out by Geo. H. Hees, Son & Co., who intend making \$3,000 alterations to their factory at 71 Bay street, Toronto.

A. G. Booth, manager of The Steel-clad Bath Co., Limited, Toronto, is laid up with the grip.

A SANITARY INDOOR CLOSET.

The attention of the trade is directed to the advertisement of The Toronto Furnace and Crematory Co., Limited, 16 Queen street east, Toronto. This advertisement deals with the sanitary earth closet. The manufacturers claim they are supplying a long-felt want in offering at a modest price a sanitary and useful indoor closet for use where water-closets cannot be had. The closet is built entirely of galvanized steel. The outside is tastefully enameled, and, when set up, it resembles an ordinary porcelain water-closet. The polished hardwood seat is double hinged and so arranged that the movable pail may be readily removed and returned to place when empty. Being entirely constructed of metal, and ventilated, it does not gather odors or become unsanitary as wood closets do, and combines, in a neat and attractive way, all the useful features of former closets. Liberal inducements are offered to the trade. Agencies should be secured at once.

CESSPOOLS.

A writer in The Plumber and Decorator, London, speaking of cesspools, says they may be said to be always a nuisance wherever placed or however carefully built. Comparatively clean slop water turned into a cesspool emerges ten times worse than it went in, mixed up and churned as it is while passing through the cesspool. Then, when, after perhaps a year, it becomes necessary to empty the cesspool, to pump the foul liquid with a chain pump and dig out the solidified excreta, the country for half a mile round is polluted, while the carts leave a track of indescribable offensive stench behind them as they slowly make their way along the nearest highway! All manner of wonderful regulations, rules and by-laws are framed to meet the case, and not one is

rigidly adhered to—were they all adhered to, for that matter, things would still be bad enough. Better anything than the cesspool system. The wholesale pollution of streams is no worse, and is much safer; besides, the streams are just as much polluted by the cesspool overflow as they would be by the contents of the cesspool itself.

MONTREAL M. P. A. OFFICERS.

These are the officers of the Montreal Master Plumbers' Association:

Hon. President—John Date.
President—John Watson.
First vice-president—E. Lesperance.
Second vice-president—James A. Sadler.
Third vice-president—Joseph Thibeau.
Secretary—N. Laraviere.
English corresponding secretary—J. W. Hughes.
French corresponding secretary—Joseph Lamarche.
Financial secretary—Joseph Montpetit.
Treasurer—P. C. Ogilvie.
Chairman sanitary committee—P. J. Carroll.
Chairman arbitration committee—James Atchison.
Chairman auditing committee—Thomas Moll.
Chairman apprenticeship—E. C. Mount.
Legislation committee—J. W. Harris.

PLUMBING AND HEATING CONTRACTS.

The Bennett & Wright Co., Limited, Toronto, have the contract for heating and plumbing in a residence in Rosedale for Jas. Henderson.

Purdy, Mansell & Co., Toronto, have the contract for plumbing and heating in a residence in Phelpstone, Ont., for Rev. Father Geather; for hot-water heating a residence for Mr. Patton, Gerrard street, and for plumbing and gasfitting in three stores on Queen street west, Toronto.

SHARPEN STEAMFITTERS' TOOLS.

The Armstrong Manufacturing Co., of Bridgeport, Conn., which manufactures a general line of water, gas, and steamfitters' tools, sharpens and repairs all dies

and bits of its own manufacture which may be returned to the factory by gas and steamfitters or other users of these tools. Of course, this does not apply to tools in which the teeth are broken to any extent, as the company do not undertake to insert new teeth, although, in some cases, dies that lack only one or two teeth can be repaired so as to cut threads properly. Tools returned to the company for the above purpose should be accompanied by full instructions.

THE WAY TO BUY.

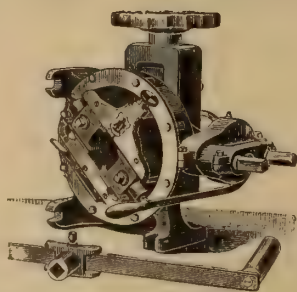
The importance of visiting the market personally before the spring season opens cannot be too strongly impressed on the minds of retailers, is the timely remark of Stoves and Hardware Reporter. The spring season is much nearer at hand than many realize, for old Father Time with his unerring sickle is reaping the minutes, hours and days swiftly and incessantly.

Seasons flash by with incredible rapidity, warning us not to procrastinate in the performance of necessary duties. It would be well, therefore, for the energetic and enterprising merchant to be making arrangements for the selection of his spring stock. It is not satisfactory in every respect to do all buying from samples submitted for inspection by traveling salesmen, or from catalogues, with which the country is flooded. Reordering may be done successfully in this manner, but broad and intelligent buying demands that the merchant personally inspect stocks.

Careful preparation for a season of profitable selling necessitates something more than a superficial, cursory examination of samples and catalogues. Unless a merchant possesses knowledge previously of market conditions, details of trade tendencies and trend of the times, he is practising false economy in neglecting to visit the market. Who is so wise or has so much foresight that he can ascertain all these things at a distance from the scene of action?

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)



New No. 0 Threading Machine.

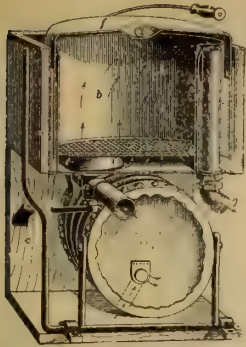
Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

**PLUMBERS!**

protect yourselves
by testing your work
with the simplest and
most reliable Smoke
Test.

Send for Circular

The
**JAMES MORRISON
BRASS MFG. CO.**
Limited
Toronto.

ISLAND CITY Paint and Varnish Works

... Manufacturers of ...

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

BELLEVILLE BUSINESS COLLEGE.

ESTABLISHED
1889.

Students have a larger earning power who
acquire the following lines of preparation under our
efficient system of training. It has no superior.

1. Bookkeeping, 4. Telegraphy, Commercial
2. Shorthand, and Railway Work,
3. Typewriting, 5. Civil Service Options.

Students may commence Telegraphing on the 1st
of each month, and the other departments at any
time.

Address :
Belleville, Ont.

J. Frith Jeffers, M.A.
Principal.



THE "DAISY" SANITARY EARTH CLOSET.

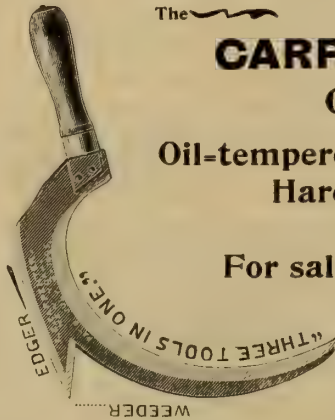
Made entirely of
Metal, and Ventilated
Newest and Best.

Designed for dwellings
and places where water
closets cannot be used.
Does not gather odors
nor become unsanitary as
wood closets do.

Manufactured by

**THE
TORONTO FURNACE
AND CREAMATORY
CO., Limited.**
14 and 16 Queen St.
East, Toronto.

Write for circulars and
prices. Headquarters for
Builders' Castings, Sash
Weights, etc.



The

CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

ACETYLENE GAS FITTINGS

We have the largest supply in Canada on hand of

Pipe, Fittings,

For Acetylene Gas

Brackets,

Get us to quote you

Burners, Etc.

Mechanics Supply Co.

96 St. Peter Street

QUEBEC

22-24 St. James St.

THE WASTE IN FURNACE HEAT.

S. Hampton Ripon.

I HAVE been making a little calculation of the wasted heat due to leaving the leader pipes in furnace heating unprotected by covering material, and, I confess, I am startled at the results disclosed. The waste unchecked, I am led to believe, is largely responsible for the dissatisfaction so often expressed at the magnitude of the coal bills and poor results therefrom.

Take as an illustration a furnace heating a small cottage: Four 10-in. pipes to the first floor and three 8-in. stacks to the second. Consider the average length of pipe in each line to be 10 ft.; then we have 40 ft. of 10-in. pipe and 30 ft. of 8-in. leader in the basement.

Each 10-ft. length of 8-in. pipe contains 21 sq. ft. of surface, or 63 in all. Each 10-ft. length of 10-in. pipe contains 26 sq. ft. of surface, or 104 sq. ft. in all, or a total of 167 sq. ft. in the basement leaders. Add, if you please, the casing of a 40-in. furnace 48 in. high and, ignoring the top, we have 42 sq. ft. more. Now, under ordinary conditions it is safe to assume that the temperature of casing and pipes is at least 140 deg. We have here a total of 219 sq. feet. of sur-

face radiating heat into a waste space with a surface temperature of 140 deg. Had we that number of square feet of radiation in a hot-water heating job we should consider it sufficient at that temperature to heat a room containing at least 4,200 cu. ft. of space, or, say, a room 15 x 28 x 10. Now, suppose the apparatus were to be wrapped first with a layer of asbestos paper and then with hair felt. I think all will agree that 25 per cent. of this waste heat would be rendered available. Probably most would claim a greater saving, but assume that for the sake of the demonstration 25 per cent. of 4,200 cu. ft. is 1,050 cu. ft. or equivalent to a room 10 x 11½ x 9 warmed by waste heat. At an estimated cost of 10c. per square foot, the entire bill for covering in this manner would be \$21.90. The annual interest on this amount, allowing for gradual depreciation, etc., ought not to be 10 per cent., but we will assume that our householder values his money at that figure, so the net annual cost would be \$2.19.

Now, it needs no mathematical demonstration to prove to any one that \$2.19 would be a small investment to warm a room containing 1,050 cu. ft. of space.

This, then, expresses a minimum saving ;

the practical, actual saving, all will recognize as being much larger.

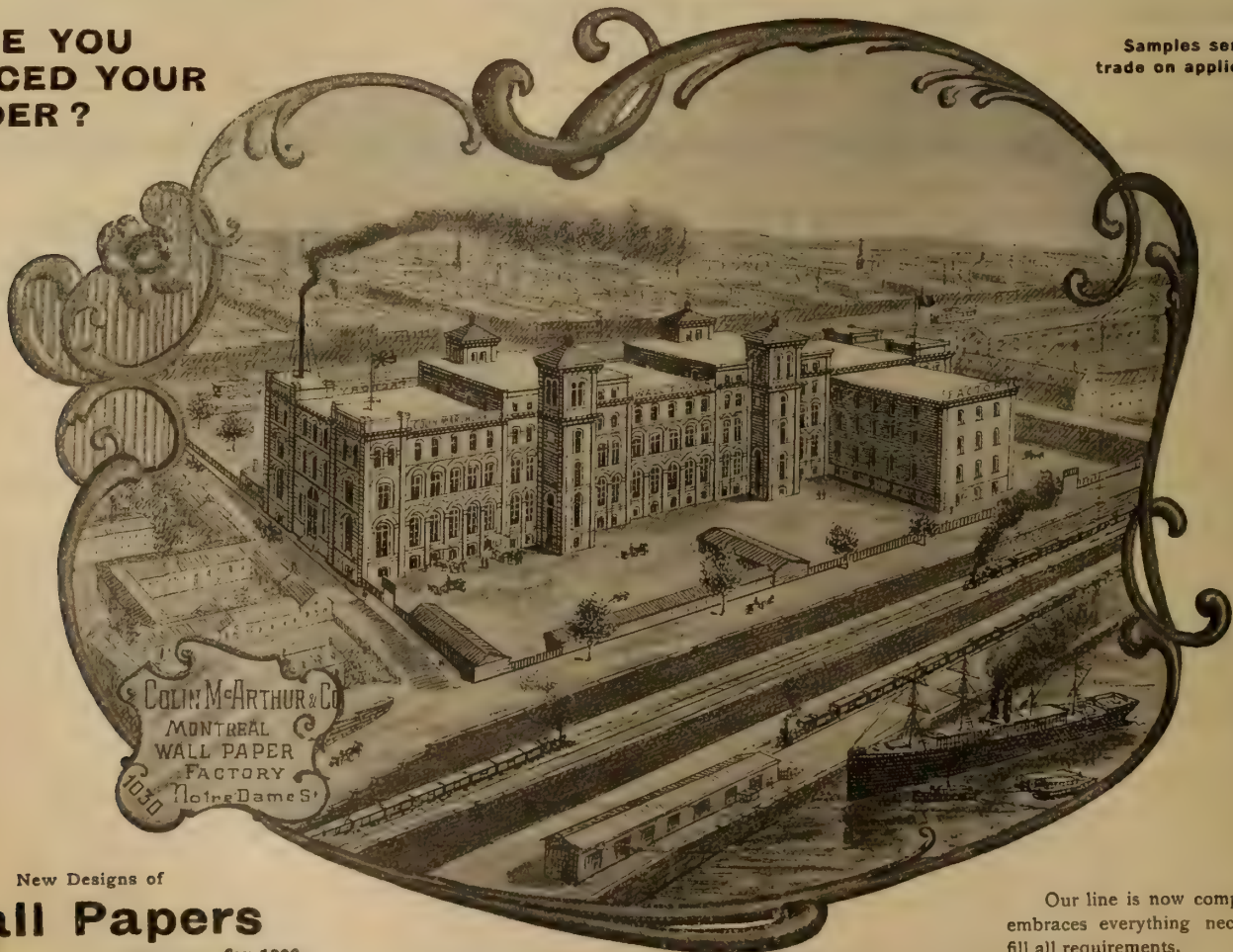
Now, I am wondering whether, in view of what is here demonstrated, it is not possible for those whose ambition it is to do the best work to persuade their customers to invest a little more in their heating plants to cover the dealer's expenses, and profits, to cover the pipes in a scientific and workmanlike manner; not merely a single layer of asbestos paper, but a complete job, as good or better than the one outlined here.—Heating and Ventilation.

NEW BICYCLE AND CARRIAGE LAMPS.

The Ontario Lantern Co., Hamilton, are adding a large amount of new machinery to their already extensive plant for the manufacture of brass goods specialties and builders' hardware, and they are just putting on the market a new acetylene gas bicycle and carriage lamp, called the "Victor," for which they claim many advantages, among which are simplicity of construction, economy in burning, etc. They expect to dispose of 5,000 lamps throughout the Dominion during the next three months. They will also have a new line of lamps and lanterns for next season's trade. They now employ 75 hands, and Walter Grose, Montreal, is the sole selling agent.

**HAVE YOU
PLACED YOUR
ORDER ?**

Samples sent to the
trade on application.



New Designs of

Wall Papers

for 1899.

COLIN McARTHUR & CO., Manufacturers

Our line is now complete, and
embraces everything necessary to
fill all requirements.

1030 Notre Dame Street, **MONTREAL.**

Sewall & Day Established 1835. Cordage Co.

45 BROAD ST., BOSTON, MASS.

Binder Twine.



This Brand is a guarantee of the Best
Binder Twine made.

John Bowman Hardware and Coal Co., London.

Lewis Bros. & Co., Montreal.

JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.

CURRENT MARKET QUOTATIONS

February 3, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 28
Straits	0 27½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X.	6 25
I.X.X.	7 50

J. E. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X.	4 25
I.X.X.	5 00

I.C., 12½x17	3 00
D.X.	3 75
D.X.X.	5 75

Note.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.	
Bessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base.	3 25
20x28.	6 25

Charcoal Plates—Terne.	
Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 00
I.X.	7 50
I.C., Orion	6 00
I.X., Orion	7 25

Charcoal Tin Boiler Plates.	
Crookley Grade—	
X.X., 14x56, 50 sheet bxs	Per lb.
14x60	0 05½
14x65	0 06

Tinned Sheets.	
72x30 up to 24 gauge.	0 06
26	0 06½
28	0 07

Iron and Steel.	
Common Bar, per 100 lbs	Base Price
from factory	1 45
Refined	1 35
Horse Shoe	1 65
Band	1 65
Hoop	2 00
Swedish	4 00
Sleigh Shoe Steel	1 75
Tire Steel	1 75
Machinery	1 85
Cast Steel, per lb.	0 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb.	0 10½
Tank Plates, 15 and thicker.	2 00
Boiler Rivets	4 50

Boiler Tubes.	
1½-inch	0 06½
2	0 07½
2½	0 09½

Steel Boiler Plate.	
3-16 inch	2 00
	1 90

¾ inch and thicker..... 1 75

Sheet Iron.

16 gauge and heavier	2 50
18 to 20 gauge	2 25
22 to 24	2 30
26	2 40
28	2 50

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 60
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	
\$2.31; ½ inch, \$2.31; ¾ inch, \$2.75; 1 inch,	
\$2.85; 1½ inch, \$5.05; 2 inch, \$6.60; 2½ inch,	
\$8.91.	

Galvanized, ½ inch, \$3.95; ¾ inch, \$4.80;	
1 inch, \$4.75; 1¼ inch, \$9.15; 1½ inch, \$11.75;	
2 inch, \$16.00. Cast soil, 2, 3, 4 and 5 inch	
60, 10 and 5 p. c.	

Galvanized Iron.

16 gauge	3 25
18 to 24 gauge	3 25
26	3 50
28	3 75

Chain.

Proof Coil, 3-16 in., per 100 lbs	7 00
¾	6 00
5-16	3 50
¾	3 15
7-16	2 95
¾	2 80
1	2 70
1½	2 60
2	3 60

Trace, per doz. pairs.	3 60
Jack chain, iron, single, per	
doz. yards.	0 13
Jack chain, double, per doz.	
yards.	0 15
Jack chain, brass, single, per	
doz. yards.	20 10

Copper.

Ingot.

English B. S., ton lots	0 17½
Lake Superior	0 18

Bolt or Bar.

Cut lengths, round, ½ to ¾ in.	0 22
round and square	0 24
1 to 2 inches.	0 22

Sheet.

Untinned, 14 oz., and light, 16	
oz., 14x48 and 14x60	0 21
Untinned, 14 oz., and light, 16	
oz., irregular sizes.	0 21

Note.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.

Planished and tinned, 14x48	
and 14x60	0 27

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 23
35 to 45	0 21½
50-lb. and above,	0 21

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 23
Spun, per lb.	0 27

Brass.

Roll and Sheet, 14 to 30 gauge, 20 to 22½	
p. c. off list.	
Sheets, hard-rolled, 2x4	20 0 22½
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 05½
Domestic	0 04½

Zinc Sheet.

5 cwt. casks	0 07½
Part casks	0 07½

Lead.

Imported Pig, per lb	0 04½
Domestic, per lb	0 04
Bar, 1 lb.	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05

Note.—Cut sheets ½ cent per lb. extra. Pipe, by the roll, usual weights per yard, lists 7 cents per lb. and 25 per cent. discount.

Note.—Cut lengths, net price, waste pipe. 8-ft. lengths, lists at 7½ cents.

Solder.

Bar half-and-half	Per lb.
Refined	0 16½
Wiping	0 14½

Note.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb.	0 10½
Other makes, per lb.	0 09

White Lead.

Pure, Assoc. guarantee, ground in oil.	Per
25 lb. irons	5 75
No. 1 do	5 37½
No. 2 do	5 00
No. 3 do	4 62½
No. 4 do	4 25

Robertson's Chemically Pure	5 75
Munro's Select Flake White	6 00
Elephant and Decorators' Pure	7 75
Brandram's B. B. Genuine	7 00

James genuine.	6 95
No. 1.	6 45

White Zinc Paint.

Elephant Snow White	0 08
Pure White Zinc	0 08
No. 1.	0 06
No. 2.	0 05

Dry White Lead.

Pure, casks.	0 04½
Pure, kegs	0 04½
No. 1, casks.	0 04½
No. 1, kegs.	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 05
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
" Green.	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	
cwt	1 35
Yellow Ochre (J.F.L.S.), bbls.	
per cwt	2 75
Yellow Ochre (Royal), per	
cwt	1 10
Brussels Ochre	1 15
Venetian Red (best), per cwt.	1 80
French	3 00
English Oxides, per cwt.	1 75
American Oxides, per cwt.	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
" Umber,	0 10
do. sw	0 09

Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½

Ultra marine Blue in 28-lb.	
boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

250 lb. casks.	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1 lb. tins.	0 15½

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Paris Green.	
1 lb. packages	0 15
½ lb.	0 16½
1 lb. tins.	0 15½

Sulphate of Copper.	
For spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.	
Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100.	1 85
Bulk in less quantities	1 80
25-lb. tins, 4 in case.	2 05
12½-lb. tins, 8 in case.	2 30

Quotations I. O. C. Toronto—10c. per 100 lbs.	
extra Hamilton, London, Guolph. For quantities less than 100-lbs., 2½c. per lb.	

Varnishes.	
(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do	2 50
Body Varnish	4 50
Furniture Varnish	0 85
Extra do	0 90
Demar Varnish	1 60
Hard Oil Finish	1 40
Orange Shellac Varnish	2 00
White Shellac	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.	
Raw, per gal. net.	0 49
Boiled, per gal. net	0 52
Outside points 1c. more than above figures	

Turpentine.	
to 4 barrels, net.	0 65
Outside points 1c. more.	

Castor Oil.	
In cases, per lb	0 10½
Small lots.	0 11½

Cod Oil, Etc	
Cod Oil, per gal.	0 50
Pure Olive.	1 20
" Neatsfoot.	90

Glue.	
(In bbls.)	
Common	0 08½
French Medal	0 12
Cabinet, sheet.	0 11
White, extra	0 16
Gelatin	0 22
Strip	0 16
Coopers	0 19
Al clear.	0 09

Liquid Glue—F. LePage's, discount 20 to 25	
per cent off list; Munn's, discount 25 to 30 per cent. off list.	

HARDWARE.	
Ammunition.	
Cartridges.	
B. B. Caps, Dom., 50 and 6 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. Amer.	

If you want the straightest and most durable Rawhide Whips in the market, order our

Napoleon and Monarch

WHIPS

Every Whip Guaranteed.

Patented and made only by . . .

HAMILTON WHIP CO.

119, 121, 123 Mary St., HAMILTON.

Cheap Whips of Every Style.

Warnock's



Axes, Edge Tools and Lumbering Tools are superior to anything else made or used in Canada. Always buy "Warnock's."

James Warnock & Co., - Galt, Ont.

Central Fire Cartridges, pistol sizes, Dom., 30 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot.
Canadian, common, 7½ per cent.
Brass Shot Shells, 55 and 10 percent
Primers, Dom., 30 per cent.
Wads.

per lb.

Best thick white felt wadding, in ½-lb. bags. 1 00

Best thick brown or grey felt wads, in ½-lb. bags. 0 70

Best thick white card wads, in boxes of 500 each, 12 and smaller gauges. 0 99

Best thick white card wads, in boxes of 500 each, 10 gauge. 0 35

Best thick white card wads, in boxes of 500 each, 8 gauge. 0 55

Thin card wads, in boxes of 1,000 each, 12 and smaller gauges. 0 20

Thin card wads, in boxes of 1,000 each, 10 gauge. 0 25

Thin card wads in boxes of 1,000 each 8 gauge. 0 60

Chemically prepared black edge grey cloth wads, in boxes of 250 each—

11 and smaller gauge. 0 70

9 and 10 gauges. 0 90

7 and 8 gauges. 0 90

5 and 6 gauges. 1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge. 1 15

9 and 10 gauges. 1 40

7 and 8 gauges. 1 65

5 and 6 gauges. 1 90

Per lb. 0 10 0 12½

Anvil and Vice combined, each. 4 50

Wilkinson & Co.'s Anvils, lb. 09 0 09½

Wilkinson & Co.'s Vices, lb. 09½ 0 10

AUGERS.

Gilmour's, discount 65 p.c. off revised list.

Hollow Stearn's, per dozen. 13 00 20 00

Adjustable Stearn's, each. 4 50 6 50

Post-hole, Vaughan's, each. 60 90

Excelsior, Jennings', discount 50 per cent.

Millar's Falls, per doz. 2 80 3 30

AXES.

Splitting Axes. 5 25 5 50

Chopping Axes—

Single List, per doz. 6 00 12 00

Double List, " 11 00 18 00

Bench Axes, 40 and 10 p.c.

Bath Tubs.

Zinc, discount. 3 90 4 00

Copper, discount, 40 and 10 p.c. off revised list.

Steel clad, 20 per cent. discount off revised list. Boxing extra

Anti-Friction Metal.

"Tandem" A. per lb. 0 19

"B. " 0 16

"C. " 0 10½

"Mo. " 0 21

"2. " 0 15

"3. " 0 10

"Canadian" " 0 08½

Magnolia Anti-Friction Metal, per lb. 0 25

No Name Metal. " 0 15

Mystic Metal. " 0 10

F. O. B. New York or Chicago.

Bells.

Hand.

Brass, 60 per cent.

Nickel, 55 per cent.

Door.

Gongs Sargent's. 5 50 8 00

Peterboro', discount 50 per cent.

Cow.

American make, discount 66½ per cent.

Canadian, discount 45 and 50 per cent.

Farm.

American, each. 1 25 3 00

House.

American, per lb. 0 35 0 40

Bellows.

Hand, per doz. 3 35 4 75

Moulders', per doz. 7 50 10 00

Blacksmiths', discount 60 per cent.

Belting.

Extra, 50 per cent.

Standard, 50 and 10 to 50, 10 and 5 per cent.

Agricultural, 60 and 10 p.c.

Bits.

Gilmour's, discount 65 per cent.

Excelsior, discount 60 per cent.

Rockford Common, 70 to 70 and 10 per cent.

"Perfection, 50 and 10 per cent.

Jennings' Gen., net list to 5 p.c. discount.

Car.

Gilmour's, 47½ to 50 per cent.

Clark's 40 per cent.

Excelsior, 10 per cent.

Gimlet.

Clark's, per doz. 0 65 0 90

Diamond, Shell, per doz. 1 00 1 50

Nail and Spike per gross. 2 25 5 20

Blind Rollers.

Annex, per doz. 1 25 1 75

Mascott, " 1 35 1 85

Erminie, " 1 00 0 00

Blind and Bed Staples.

All sizes, per lb. 7¼ 0 12

Bolts.

Carriage, dis., 60 and 10 to 70 p.c.

Tire, dis., 70 and 5 per cent.

Stove dis., 70 per cent.

Elevator, dis., 35 to 40 per cent

Machine, dis., 70 p.c.

Coach Screws, dis. 70 and 10 p.c.

Plough bolts, 60 p.c.

Boot Calks.

Small and medium, per M. 4 50

Small heel, per M. 4 25

Broilers.

Light, dis. 65 to 67½ per cent.

Reversible, dis., 65 to 67½ per cent.

Vegetable, per doz., dis. 37½ per cent.

Henis, No. 8, " 6 00

Henis, No. 9, " 7 00

Queen City " 7 50 0 00

Butchers' Cleavers.

German, per doz. 6 00 11 00

American, per doz. 12 00 20 00

Building Paper, Etc.

Plain building, per roll. 0 30

Tarred lining, per roll. 0 40

Tarred roofing, per 100 lb. 1 45

Coal Tar, per barrel. 3 75

Pitch, per 100-lb. 0 60

Butts.

Brass.

Wrought Brass, dis., 17½ p.c. revised list.

Cast Iron

Loose Pin, dis. 70 per cent.

Wrought Steel.

Fast Joint, dis. 70, 10 and 5 to 75 p.c.

Loose Pins, dis. 70, 10 and 5 to 75 p.c.

Berlin Bronzed, dis. 70, 70 and 5 per cent.

Gen. Bronzed, per pair. 0 40 0 65

Cards.

Horse, per doz. 0 60 1 00

Carpet Stretchers.

American, per doz. 1 00 1 50

Bullards, per doz. 6 50

Carpet Sweepers.

Bissell, per doz. 22 50

World, " 21 75

Daisy, " 24 00

Star, " 13 00

Crown Jewel, per doz. 29 00

Grand Rapids, " 24 00 33 00

Cartridges.

(See Ammunition.)

Castors.

Bed new list, dis. 55 to 57½ per cent.

Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.

Nos 31 and 32, per gross. 8 50 9 50

Cement.

Canadian, Portland. 2 50

English " 2 85

Belgium " 2 75

Canadian hydraulic. 1 20

Figures are for barrel lots.

Chalk.

Carpenters Colored, per

gross. 0 45 0 75

White lump, per cwt. 0 60 0 65

Red. 0 05 0 06

Crayon, per gross. 0 14 0 18

Chisels.

Socket, Framing and Firmer.

Broad's, dis. 75 per cent.

War rock's, dis. 40 and 5 per cent.

Churns.

Delivered from stock in Ontario: No. 0, \$2.85

No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock,

Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.

Axle dis. 65 per cent.

Closets.

Washout, plain. 3 25

embossed. 3 50

Compasses, Dividers, Etc.

American, dis. 62½ to 65 per cent.

Cradles, Grain.

Canadian, dis. 20 per cent.

Dies.

Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.

Hart Mfg. Co. (bolt dies), (Amer. list), dis. 5 per cent.

Door Springs.

Torrey's Rod, per doz. (15 p.c.) 2 00

Coil, per doz. 0 88 1 60

English per doz. 2 00 4 00

Draw Knives.

Broad's, dis. 75 per cent.

Warnock's, dis. 25 per cent.

Drills.

Hand and Breast

Millar Falls, per doz. net list.

DRILL BIT.

orse, dis. 37½ to 40 per cent.

Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.

Stovepipe.

Per doz. 85 1 70

FILES.

Globe File Mfg. Co.'s dis., files, 60 and 10

70 per cent.

Black Diamond, 50 and 10 to 60 per cent

Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.

Jowett's English list, 25 to 27½ per cent.

Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.

Hay, manure, etc., dis., 60 and 10 to 60, 10

and 5 p.c. revised list.

FREEZERS

Ice Cream.

White Mountain, 1 to 25 qt. 1 35 13 50

Arctic, dis. 50 p.c.

FRUIT PRESSES.

Henis', per doz. 3 25 3 50

Shepard's Queen City, dis. 15 per cent.

FRY PANS.

Acme, dis. 65 to 67½ per cent.

GAUGES.

Marking, Mortise, Etc.

Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each. 1 65 2 40

GLASS.

Window.

Box Price.

Star.

Per

50 ft.

Per

100 ft.

Per

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandeller, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis. 47½ per cent.		
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Wire.

Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"C" brand, 50 p.c. dis.	} Oval head.	
"M" brand 50 p.c.		
"P.B.", dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.	F.O.B. Toronto.	
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		

Light, all sizes.	3 45	
Extra light.	4 60	
Toe weight (steel).	5 60	

If shipped from factory, Montreal, 10c. per keg less.

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off newlist.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock, Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, " "	6 00	9 00
Shutter, porcelain, F. & L. sower per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.15 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, " "	1 87	3 85
King, wood, " "	2 75	2 90
King, glass, " "	4 00	4 50
All glass, " "	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk, " "	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz.	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		

Padlock.

English and Am., per doz.	50	6 00
Scandinavian, " "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmith's, per doz.	1 25	1 50
Carpenter's, hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MOLASSES GATES.

Stebbin's Patent, dis. per cent., 77½ per cent		
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NAILS

Quotations are:	Cut.	Wire.
2d. and 3d.	\$2 75	\$3 40
3d.	2 40	2 65
4 and 5d.	2 15	2 40
6 and 7d.	2 05	2 30
8 and 9d.	1 90	2 15
10 and 12d.	1 85	2 10
16 and 20d.	1 80	2 05
30, 40, 50 and 60d. (base).	1 75	2 00
Steel Cut Nails 10c. extra.		
Canada and finishing nails, special sizes, 80 p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
----------------------	------	------

NAIL SETS.

Square, round, and octagon, per gross.	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety " "	0 16½	
American w. w. " "	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal. per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Brass, " "	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head, " "	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½ to 8.	100 00	
No. 56 Hand Machine, range 2½ to 6.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.

S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle.	0 22	0 33
Screw.	0 27	1 00
Awning.	0 35	2 50

PUMPS

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers, per doz.	1 00	1 85
Conductors, " "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps 67 and 10 to 70 p.c.		
Heller's Horse rasps, 57 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Roker's, " "	7 50	11 00
Wade & Butcher's, " "	3 60	10
Arbenz's, " "	9 00	18
Theile & Quack's, " "	7 00	12

RIVETS AND BURRS.

Carriage. Section, Wagon Box Rivets, etc. (Steel). 65 p.c.		
Carriage. Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and p.c.		
Copper Rivets & Burrs. 40 p.c. dis. in ¼-lb. boxes and cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
------------------------------------	--	--

ROPE, ETC.

7-16 in. and larger, per lb.	9¼	10
¾ in.	9½	10½
¼ and 5-16 in.	10¼	11
Cotton	11	13
Russia Deep Sea	14½	14½
Jute	6¾	7½
Lath Yarn	8¾	8¾
New Zealand Rope.	½	½

RULES.

Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid, " "	1 25	

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent		
Fairbanks Standard, 45 p.c.		
Dominion, 67 p.c.		
Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS.

Wood, F. H., iron, and steel, dis. 85 & 5 p.c.		
Wood, R. H., " " dis. 77½ and 5 p.c.		
F. H., brass, dis. 80 and 5 p.c.		
Wood, R. H., " " dis. 72½ and 5 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.	3 25	4 00
iron, " "	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 60 p.c.		
Heinisch, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears. 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
------------------------------------	--	--

SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent, revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	2 50	
Bright	2 25	

STOCKS AND CDS.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindustan, " "	0 06	0 07
slips, per lb.	0 09	0 09
Labrador, " "	0 13	
Axe, " "	0 15	
Turkey, " "	0 15	
Arkansas, " "	0 00	1 50
Water-of-Ayr, " "	0 00	1 00
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.



No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case, " "	7 50	

STEP LADDERS.

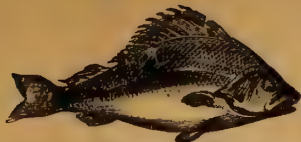
BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c
2nd grade, 3 to 10-ft., per foot, 10c.

TACKS, BRADS, ETC.

Cheese-box tacks, blue, 80 and 20 p. c.	
Trunk tacks, black, 80 and 12½ p. c.	
" tinned, 80 and 12½ p. c.	
B. B. B. iron carpet, blued.....	80
" tinned.....	80
R. B. B. iron carpet, bright or blued (in kegs)	
B. B. B. iron carpet, tinned (in kegs)...	80
B. B. B. cut tacks (in bulk).....	50
" " ¼ weights, 4 to 14.....	50
" " " 4 to 10.....	53
Swedes, cut tacks, genuine, blued and tinned, bulk.....	80
Swedes, upholsterers, 80 and 20.	
Swedes, carpet, blued and tinned, z.	70
Swedes lace.....	70
" brush.....	50
" gimp, blued, tinned & japan'd	75
Zinc tacks.....	35
Copper tacks.....	82½
Leather carpet tacks.....	65
Trunk nails, black and tinned.....	75
Cloud nails.....	75
Cigar box nails.....	45
Lining nails in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk.....	70
Saddle nails in papers.....	10
" " in bulk.....	15
Tinned capped trunk nails.....	15
Double pointed tacks, discount 90 p. c.	

Fishing Tackle.



ALLCOCK'S STAG BRAND

goods are the best. When you buy from us you buy from the largest makers and oldest house in England. Established 1800.

The Allocock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

STAR HACK SAWS BUTCHER SAWS BRACKET SAWS

THE STAR HACK SAW

Has a file temper, and one 5-cent blade will do more work than 50 worth of files. It will cut off an inch square bar of steel 100 times without filing.

THE STAR BUTCHER SAW

Will cut four times as long without filing as any other kind in use. It will cut off a half-inch rod of iron 30 times.

THE STAR BRACKET SAW

Is taking the place of all other kinds.

None of these Star Saws are to be filed, as the price is less than the cost of filing. They are taking the place of all other saws as fast as they become known.

For Sale by Most Hardware Dealers

We also make a Power Hack Saw which may be found in most machine shops and iron working establishments, and should be found in all.

MILLERS FALLS CO. 93 Reade Street
NEW YORK

THE PRESS CLIPPING BUREAU

Reads every newspaper in Canada and clips therefrom all articles of a business or personal nature of interest to subscribers in this department.

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Executive Offices Proprietors.

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Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

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McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

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HAMILTON STAMP AND STENCIL WORKS

Send for Quotations

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The "True Brand" Cutlery may not be any better than other equally high-class goods, but price and quality compared, Ours is the most profitable.

E. F. WALTER & CO.

MONTREAL.

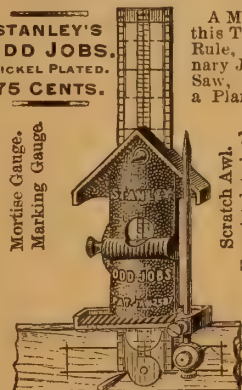
This Tool embraces in itself and in combination with an ordinary Carpenters' Rule:

Try Square.
Mitre Square.
T-Square.
Marking Gauge.
Mortise Gauge.
Depth Gauge.
Mitre Level.
Spirit Level and Plumb.
Beam Compass.
Inside Square for making boxes and frames.

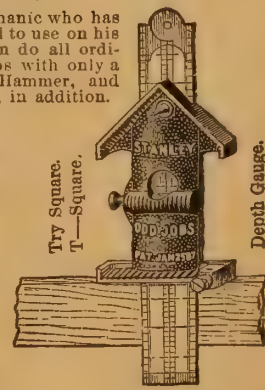
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Rule & Level Co.
NEW BRITAIN, CONN.

SOLD BY ALL
Hardware Dealers.

STANLEY'S
ODD JOBS.
NICKEL PLATED.
75 CENTS.



A Mechanic who has this Tool to use on his Rule, can do all ordinary Jobs with only a Saw, a Hammer, and a Plane, in addition.



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS. Send for Booklet.

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting, double action, small frame. Weighs 12 oz. Rebounding lock. 32 caliber. 5 shot.

Made with shorter barrel for bicycle use.

The most perfect small pistol made.

SEND FOR CATALOGUE.

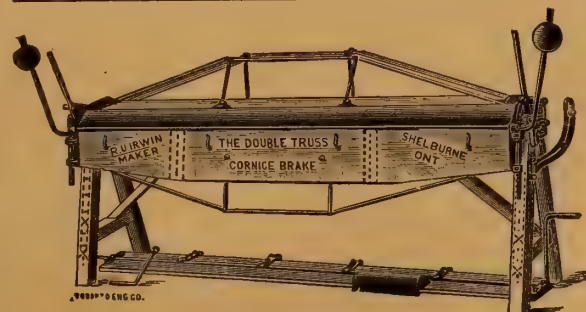


Forehand Arms Co.

Manufacturers of the

Forehand Guns

Worcester, Mass.



This eight-foot Brake bends 22-gauge iron and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra, if required.

Send for circulars and testimonials to

The Double Truss Cornice Brake Co. SHELBURNE, ONT.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

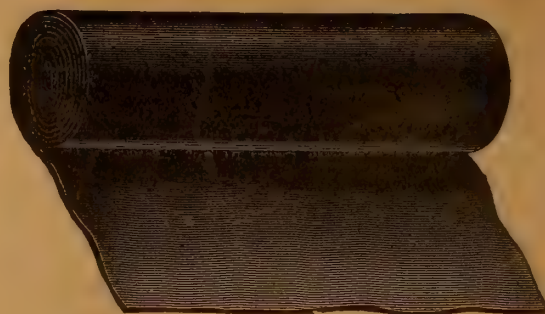
Gold Medal at Atlanta, 1895

TRADE MARK.



HAVE YOU TRIED IT?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

ROBERTSON'S . . . Porcelain Enamels

are put up in neat patent opening (Penny Lever) tins, painted on top with same color as contents, ready for application, requiring no varnish.

They are **cheap, durable** and **beautiful**, and being well advertised, and thoroughly well-known, have an enormous sale throughout the country.

Manufactured by

The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

Scientific Bearing Metal
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, FEBRUARY 11, 1899.

NO. 6



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

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CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267 West St., New York

The Best Galvanizing

Looks best, adheres best and
wears best.

Buy Queen's Head and you
will be satisfied.



CANADA

JOHN LYSAGHT, Limited
BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD

Patent

RADIATORS

For Heating by
HOT WATER and STEAM.

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company

TORONTO

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Favorite

RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

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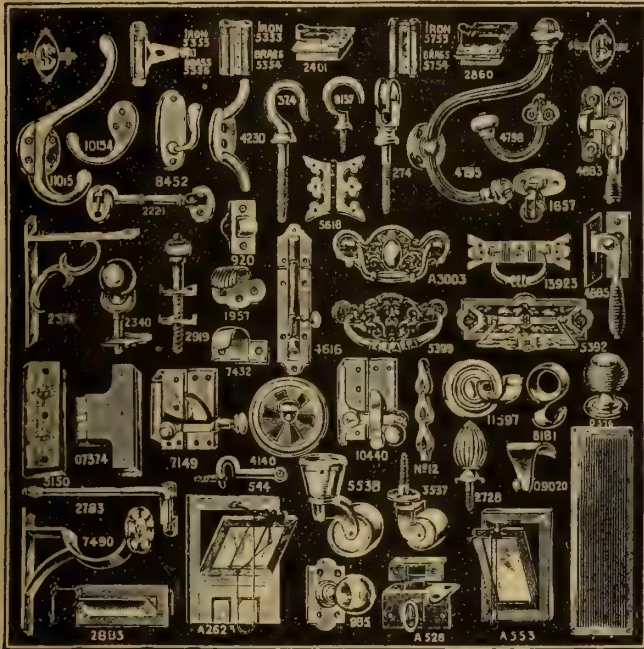
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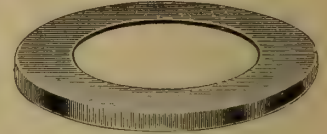
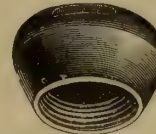
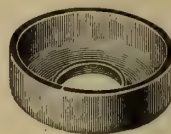
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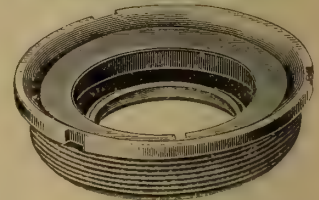
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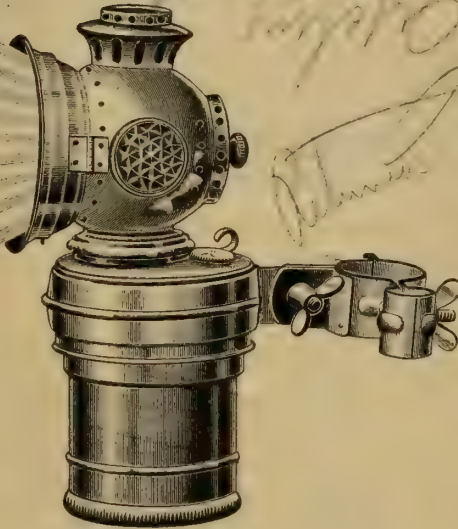
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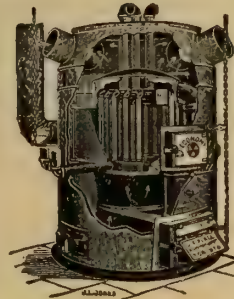
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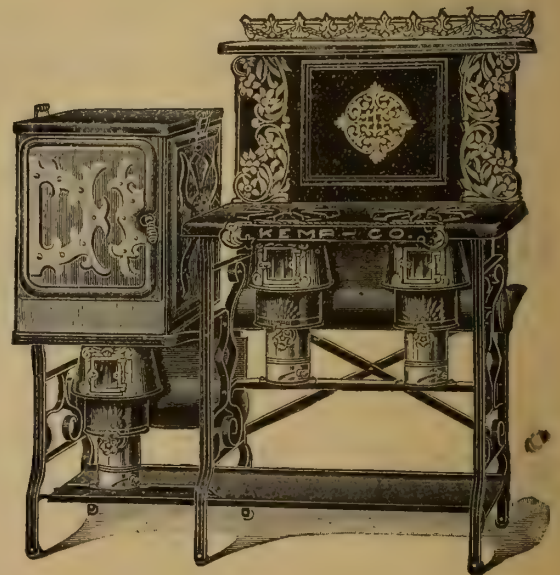
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HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, FEBRUARY 11, 1899.

No. 6

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PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE BOOM IN VALUES.

"FOR the first time in ten or twelve years," said a hardwareman, "our business is enjoying a boom. Shelf goods, general stock and heavy hardware; in fact, everything in the business, is selling higher than for many years. The advance ranges from 10 to 20 per cent., and prices do not appear by any means to have reached the top. The result is that manufacturers here, and in the States, are receiving orders with keen discrimination and imposing all sorts of conditions, and it looks very much as if, when the spring movement sets in earnest, jobbers will have difficulty in keeping up with the demand, and wholesalers are telegraphing their travelers in every direction not to sell them poor.

"No one can give any definite reason for

this boom. When the old men in the trade are asked to account for it they say: 'Prices have been too low for many years,' or 'raw materials have advanced sharply, and are still going up,' or 'manufacturers are unable to keep up with the demand of the jobbers.'

"In a few seasonable articles there is almost a certainty of an actual shortage. This is particularly true of wire cloth, such as is used in making screen doors, and the sort of wire classed as poultry netting, that is used for countless industrial and agricultural purposes.

"In all manufactured articles in which copper, pig tin, or tinplate, lead, zinc, or solder forms a considerable part, there has been an enforced advance on the part of the manufacturers, and the jobber has usually added something on his own account to protect himself from his customers."

ADVANCE IN COD OIL.

Notable strength and activity in cod oil has been a prominent feature of the week in the Montreal market. As a result of the keen demand, prices have advanced in the past few days 5c. per gallon. Stocks are light, and with business maintained in its present volume further appreciation is quite probable.

At the end of last week a sale of 100 barrels was made at 33c. net cash, and, now, there is only one other lot in the market aside from what jobbers have in stock. It is less than 100 barrels, and is held at 35c. net cash. Jobbing prices are now held firm at 37½ to 42½c.

ENORMOUS SALES OF PIG IRON.

A million tons of pig iron is a pretty big amount for one firm to sell in a single year, but that figure has been reached by Rogers, Brown & Co., New York, Buffalo, Chicago.

During 1898, the total sales of pig iron by the nine branches of this firm were 1,001,356 gross tons, as compared with 775,345 gross tons in 1897, a gain in one year of 226,001 tons, or 29 per cent. Their sales of coke last year were 253,270 net tons, against 155,299 net tons in 1897, a gain of 97,971 tons, or 60 per cent.

As the total output of non-Bessemer pig iron produced in the United States is estimated at 3,500,000 tons, of which 500,000 tons were basic iron, leaving about 3,000,000 tons of foundry and forge iron coming to the market, the sales of Rogers, Brown & Co. are fully one-third of the total quantity of foundry and forge pig iron marketed in the United States.

Of the total sales, 78,450 tons were exported. These were distributed in almost every country in the world, reaching more than 500 foundries and rolling mills.

LARGE ORDERS FOR B.C. LUMBER.

The lumber industry in British Columbia, which has been in an unsatisfactory condition for some time, is improving.

A despatch from Vancouver states that an order for 160,000,000 feet of lumber has been placed in the mills there for the Chinese railway. It will take six years to complete the order. Australia is also placing large orders for British Columbian lumber.

The exports of the products of the forest from Canada in 1897 to China were \$104,387, and to Australia, \$193,000.

A WEEK'S CHANGES IN HARDWARE PRICES.

ADVANCE IN SHELF HARDWARE.

ADVANCES received in Toronto this week, from some of the largest manufacturers in the United States, note an advance of 10 per cent. in the price of shelf hardware.

Upon local quotations these changes have had no further effect so far than to impart a firmer feeling to prices. A gradual advance may, however, be looked for.

BRASS JACK CHAIN.

An extraordinary advance in the price of jack chain has just been announced by the manufacturers of this article in the United States.

The appreciation runs from 45 to 50 per cent., and its effect upon local prices will doubtless soon be asserted.

CHANGES IN BOLTS AND NUTS.

Owing to the appreciation of raw material the manufacturers of bolts decided upon a change in the discounts on bolts and nuts. The following are the changes :

Common carriage bolts, 5-16 and under, 70 per cent.; ditto, $\frac{3}{8}$ and larger, 60 and 10 per cent.; machine bolts, 70 per cent.; ditto, $\frac{3}{8}$ and larger, 65 and 10 per cent.; coach screws, 75 and 10 per cent.; sleigh shoe bolts, 80 per cent.; blank bolts, 60 and 10 per cent.; bolt ends, 60 and 10 per cent.; nuts, square, all sizes, $4\frac{3}{4}$ c. per lb. off; nuts, hexagon, all sizes, $5\frac{1}{4}$ c. per lb. off; tapping nuts, 70 per cent.

WHITE LEAD 25c. DEARER.

An advance of 25c. per 100 lb. was decided upon on Thursday by the manufacturers. This makes the price for association pure \$6 instead of \$5.75 as formerly.

This advance, it will be observed, is equal to \$5 per ton; but the appreciation in the price of the raw material has, on the other hand, been equal to \$10 per ton.

PIG TIN EASIER.

There is at least a stay in the phenomenal advances in pig tin, both the London and New York markets being a trifle easier, stocks on spot and afloat being fairly large.

Prices remain unchanged, the figures of 27½ to 28c. per lb. being maintained.

It is interesting to note, in connection with the tin market, that high as prices now are,

compared with a few weeks ago, yet they are quite a distance from what they were ten years ago, when the market was cornered by a French syndicate.

At that time importers in Canada had to pay nearly 40c. per lb. in carload lots, while the price to retailers touched 50c. per lb.

SHEET METAL DEARER.

The bulls have had full possession of the market for sheet metals during the week, two or three advances having taken place in some lines.

This has caused a great deal of inconvenience, for, sometimes, just as the travelers had been advised of one change, another had to be ordered.

Galvanized iron, particularly, has been subject to change.

Cask lots of "Queen's Head" cannot be obtained at less than \$4.50 per 100 lb. for 28 gauge, and for smaller quantities \$4.75 is the idea.

The price for American iron, 28 gauge, is \$4.25 in case lots, with 25c. per 100 lb. additional for smaller quantities.

Within the past two weeks, there has been an advance of 35c. per 100 lb. in the price of black iron in the primary markets.

Galvanized iron of United States manufacture is costing about 50c. per 100 lb. more than two weeks ago. "Queen's Head" brand is costing about 1s. per 100 lb. more than it did a week ago.

It is a fact worthy of note that zinc spelter, which enters largely into the manufacture of galvanized iron, has, within the past two weeks, appreciated \$8 per ton, while the proposed \$300,000,000 steel trust is, no doubt, lending its aid in appreciating values.

Jobbers in Toronto have put their quotations on sheet copper up and now ask 23 to 23½c. per lb. In braziers' sheets, extras are now quoted full, instead of half, and prices now range from 23 to 25c. per lb.

RED LEAD ADVANCES.

As a result of the advance in all lead products, an advance of 15c. per lb. has been made in the price of genuine red lead, which is now quoted at \$4.90 in casks of 560 lb., and at \$5.15 in casks of 100 lb.

No advance has yet been made in No. 1

red lead, but this grade is firm at \$4.50 in 560-lb. casks and \$4.75 in 100-lb. casks. This is the first advance that has been made in red lead for over a year.

CHARCOAL PLATES.

Quotations on terne charcoal plates are quoted 25c. per 100 lb. dearer in Toronto, the figure now being \$6.25 per 100 lb. for IC, 20 x 28, 112 sheets.

LEAD PIPE HIGHER.

Lead pipe has joined in the list of appreciating lead products, the discount of 25 per cent. having been changed to 17½ per cent.

COPPER RIVETS.

Copper rivets are 4 per cent. dearer than they were a week ago, the discount being 37½ per cent. instead of 40 per cent., as formerly. The high price of raw material is the cause of the appreciation.

SULPHATE OF COPPER UP.

The high values ruling in the copper market have materially affected the price of sulphate of copper, which is now selling in Toronto at 6¾ to 7½c., an advance of 2c. in less than three weeks. The price of this material on the New York market is within ¼c. of the Toronto figure.

As last year sulphate of copper was quoted at 4¾ to 5c., the price now ruling is 50 per cent. higher than a year ago.

COPPER AND TINWARE ADVANCE.

An advance of 15 per cent. is announced this week in the price of copper ware. Tinware vessels with copper bottoms, such as tea kettles and boilers, show an appreciation of 10 per cent.

CHANGE IN TERMS AND DISCOUNTS ON STOVES AND RANGES.

The manufacturers of stoves and ranges in Canada have decided upon certain changes in discounts and in terms of delivery.

The terms are now four months net, and the cash discount for payment in 30 days is 4 per cent. instead of 5 per cent. as formerly.

But the most important change is in the terms of delivery. Under the old stove combine, when manufacturers' profits were large, stoves and ranges were delivered to nearest railway station or steamboat. And, although

the combination has not been in existence since 1891, the custom has been kept up. It has now, however, been decided to discontinue it, and, hereafter, stoves and ranges will be sold strictly f.o.b. at manufacturing point.

With the change in the delivery terms and the reduction in the discounts, the advance in prices is estimated to be equal to between 3 and 4 per cent.

WIRE NAILS.

Although, as a rule, the idea for wire nails is \$2 per keg, yet, there are jobbing houses which are by no means disposed to accept that figure, and are holding firm at \$2.15 per keg.

The condition of the market for raw material, and the appreciation of wire nails in the United States certainly warrants a higher price than \$2.

According to advices received from Pittsburgh, the price of wire nails there to the jobbers is now \$1.60 per keg. This would mean, with the Canadian duty added, \$2.20, without taking freight into consideration.

A wire nail manufacturer, who last week bought wire, states that it cost him equal to \$2.10 per keg for nails.

The discount on miscellaneous wire nails has been reduced to 80 per cent. It was formerly 80 and 5 per cent.

TINNED IRON HALF-A-CENT DEARER

The price of tinned iron has been advanced $\frac{1}{2}$ c. per lb., and we now quote 30 x 72 (24 gauge) 6c. per lb. Cut sizes are quoted at $5\frac{1}{4}$ c. per lb.

GALVANIZED WIRE QUOTED HIGHER

An advance of 10c. per 100 lb. is announced, under date of February 8, in the price of galvanized wire, and the figures quoted are now as follows: Nos. 8, \$2.70; 9, \$2.25; 10, \$2.70; 11, \$2.80; 12, \$2.40; 13, \$2.55; 14, \$3.15; 15, \$3.40; 16, \$3.70; 17, \$3.80.

All quotations are f.o.b. Toronto, Montreal, Hamilton, or London.

COPPER PITTS.

An advance has been made within the last few days in the price of copper pitts,

quotations now being as follows: Common, 25c. per lb.; patent or spun, 29c.; planished copper, 29c.

MISCELLANEOUS ADVANCES.

Brass wire shoe rivets, net list no discount; was 10 per cent. off the list.

Galvanized roofing nails, 30 per cent.; was 35 per cent.

Boat nails, 40 per cent.; was 45 per cent.

Shot, net list, no discount; was 17 per cent.

HURT BOTH JOBBERS AND THE CUSTOMS.

FOR some time a system has been in vogue among certain exporters in foreign countries—Germany and the United States particularly—whereby not only the Canadian Customs were deprived of revenue, but the Canadian jobbing houses of customers.

Briefly, the system was this: Exporting houses abroad, who had no regular representatives in Canada, would send travelers to this country to call upon the merchants in their respective lines, retailers, as a rule, being their customers.

When the orders taken were shipped from Germany or from the United States, as the case might be, each order was wrapped up separately, but all would be placed in one package and addressed to a broker in Toronto, Montreal, or some other commercial centre.

Instead, however, of the invoices for the different orders being sent for presentation at the Customs port where the entry was being made, one invoice covering the whole lot would be sent to the broker, the price thereon being the cost in Germany or the United States, just as the case might be. The object of this was to persuade the Customs authorities that the goods were merely sent on consignment.

By this means the Government was naturally defrauded of revenue, and the persons who were the gainers thereby were not the importers, but the exporters in foreign countries who resorted to the practice.

In order to put a stop to the practice, the Customs Department, a short time ago, issued regulations compelling foreign owners of goods already sold, and consigned to

brokers in Toronto, Montreal, or elsewhere, to show the prices at which these goods had been sold.

Although only in operation a short time, these regulations are having the desired effect, giving, as they do, the appraisers material assistance in determining the value of goods for duty.

IMPORT ORDERS ON A CLOSE BASIS

Cable advices on Wednesday reported a sharp advance of two points, or about 7 per cent. in the price of window glass on the Belgian market, and the indications seem to unite to cause the conclusion that the prices will remain at their present high position for some time.

Meanwhile, the competition for import orders continues keen, though the orders are being taken at a very close basis. One house states that orders are being taken at what it would cost to lay window glass down here at.

Those who have placed import orders will have, if present conditions continue as long as they are expected to, good reason to congratulate themselves.

MICA AND ITS USES.

The demands for a transparent and yet tough and refractory substance to serve as a substitute for glass have occasioned a lively trade in mica. This remarkable substance is one of the silicates and is found so extensively distributed in nature that hardly any country is without it. Very extensive beds have been discovered in North Carolina, New Hampshire and other States, while in Sweden, Norway, Russia, Siberia, China and Peru there are enormous deposits. Plates three feet square have been quarried in Sweden, and blocks yielding pieces almost this size have been taken out in the United States. On ships of war it is extensively used as a substitute for glass in port-holes, not being readily fractured by the discharge of heavy guns. It is employed in the doors of stoves and in many countries as a substitute for window glass. It is extensively used in the arts, spectacles, optical instruments and bronze powder have been made from it, and it is also serviceable in holding small objects for examination through a microscope.

THE USE OF BELTING.

THERE is no one thing about a saw-mill or planingmill that is subjected to as much abuse and misuse as its belting, writes "A Traveler" in Age of Steel. As a rule, it is bought with no judgment, and is used with still less. The proprietor of a mill pays for his belting, but alas! in how many instances does he keep track of it. When the supply is exhausted the foreman says, "you had better order some more belting," and gives the order. In a majority of instances no judgment is displayed as to what kind of belting should be used for the different kinds of work. The same thickness of belting is used on a pulley 3 inches in diameter as is used on one 24 inches in diameter. Then when the belt breaks it is cursed and damned.

THEY SWEAR

it is no account. Nothing is to blame but the belt—neither the machine nor the foreman are at fault. All the laws of mechanics, and science and common sense are ruthlessly violated, and yet the belt is to blame if it breaks. And too often the manufacturers of belting are to blame for recommending certain kinds of belting for certain work when it is as unfit for it as a miner is for paradise. And, as a rule, these belt-makers are as full of "theory" as an egg is of meat. But there they stop. They cannot give you a practical reason for what they say. Numbers of them never saw a belt put on any pulley outside of their own little shop, and they imagine because the belt does well there, it will do well anywhere else, and under any and all circumstances.

All belts work on the principle of "suction," and let it be remembered that a thin belt will grip or hug the pulley better than a thick one, and consequently will have more suction, and consequently again will not have to be so tight in order to make it do its work—thus making it easier on the joint or where the belt is laced. A majority of the mills in this country are using 4-ply rubber belts on the matcher head pulleys of their machines, or else double leather. In all machines these pulleys are small and millmen will find that 3-ply rubber belts, or light single leather belt of a good quality, will do better,

GIVE LESS TROUBLE,

save time by not stopping to mend the belt—the belt will run slacker and will cost less money. The writer can cite your readers to a number of mills where 3-ply rubber belting (of a first-class quality) has been run on the matcher heads—one set of belting lasting for 12 months. I know of several mills which, after trying the 3-ply belts, have adopted them for the cylinder heads of their planers, and, where leather is used, they adopted a

very thin light double—where heavy belts are used on small pulleys, the belt being too thick to grip the small circumference of the pulley, it will begin to jump and thump—slap the pulley, and when it gets under full headway the motion thus imparted subjects the belt to a pounding process, which, if it be a rubber belt, will cause the plys to open up and part, or if it be a leather belt—will cause it first to crack on the surface, and finally, as the cracks eat in and get deeper, to break. In cases of this sort the belt is in no way to blame. A mechanical trouble is involved which causes this trouble—yet the poor belt is blamed all the same. A cylinder head when sprung out of true will act against the belt—the belt must break—but it is blamed for doing so.

ANOTHER COMMON TROUBLE

is the poor way in which the belts are laced. In a majority of instances, a large punch is used to punch the holes, often a No. 10, which makes the hole as large as the end of your little finger—thus weakening the belt—then, often the most illiterate person around the mill is told to lace a belt—when they don't know how to lace a shoe—they make a bungling job—the lace draws unevenly on the belt—the holes tear out; the machine—and sometimes the mill—stops, and the belt is damned by everyone, from the boss down to water-carrier. The lacing of a belt is an art, when done correctly, and is by no means so simple a job that Tom, Dick and Harry can do it. And in justice to the belts, in justice to their own interests, intelligent millmen cannot pay too much attention to this important and vital point. Let them order belts whose thickness will be in proportion to the work to be done. For instance, a 14-inch gang edger belt ought not to be as thick as a 24-inch saw belt or main drive belt. Yet, we nearly always see the small belts made as heavy and as thick as the large ones. Again, a majority of

BELTS ARE TOO SHORT.

For this the architect of the mill—those fellows who get up blue prints—are generally to blame. A belt 50 feet long will outlast, by far, one that is only 25 feet. The slack of a belt will enable it to withstand, and recover from the shock of, the variable load put on them. The additional cost of a mill arranged for all the belts to be reasonably long will be repaid many times over in the saving of belts and the loss of valuable time occasioned by short belts breaking. Still another cause of belts, and especially large ones that are used with a tightener, breaking, is that entirely too much weight is put on the tightener—in the tightener boxes. The object of a tightener is to prevent slipping of the belt. If the

tightener is not heavy enough to prevent this, then a large box is put on, or adjusted by weights, to the frame. Into this box, without any judgment whatever, hundreds of pounds of old castings or brick are placed to stop the belt from slipping. No mathematical calculation whatever is used. A thousand pounds of extra weight is often used when 50 lb. would answer. The result is that the belt is under a

CONSTANT AND SEVERE STRAIN

night and day. Every fibre is stretched, and consequently the belt begins to open up at the lap—the law of nature compels it to do so. Yet, when the belt gives way it is cursed—the man who made it is cursed, and the poor drummer who sold it is cursed. There is no question of a doubt but that the hardest work in the world to which belts are subjected is sawmill work, and especially, above all, the saw belt, which is subjected every time the saw cuts, by the jerking strain imparted to it by the steam feeds. One instant the saw is out of the log and the belt runs light the next instant, in a flash, all the load it can stand is thrown on to it. It is only a wonder that they stand this terrible strain as well as they do. Limbs of steel and sinews of catgut could do no more. And now in conclusion it is no exaggeration to say that with a little more care, more judgment used in buying belts—and a good deal more common sense displayed in operating them—that every mill in the country would save from 25 to 50 per cent. of the amount they annually pay out for belts, as well as a heavy percentage of religion.

Let the millmen remember that the belts transmit the power, and that belts properly cared for save time; and in a sawmill time is money. Aye, and big money.

TAKING GOOD WISHES WITH HIM.

Mr. James P. Forsythe, letter-order clerk with H. S. Howland, Sons & Co., Toronto, has severed his connection with that firm to accept a position in Kansas City, U.S. Before his departure, Mr. Forsythe was presented, by his fellow-employees, with a gold locket and chain as a mark of the esteem in which he was held, and of the good wishes which follow him to his new home.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

THE SUCCESSFUL BUYER.

THE successful buyer is one who is conversant with his business and is likewise a man of resolute character. He is one who keeps close tab on his stock and who can tell you in a moment just what amount of stock he has on hand of every grade. He is one who studies his trade and the requirements of his customers. As a result, he knows what novelties he can sell and to what extent. He is always in position to regulate his purchase and thereby keep his stock in proper condition. He is always wide-awake and well-informed on what is being offered in the market. Does he read? Yes. He carefully scans every trade journal that is issued touching the line of goods that he buys, and thereby he attains new ideas and very frequently secures most valuable information. In a word, he is a thoroughly posted man.

More failures can be attributed to overbuying than to any one cause, with perhaps the exception of incompetency and lack of capital. Overbuying is to be avoided only by close application, constant vigilance, and all-round information. To disregard possible overstocking is to invite embarrassment. The judicious purchasing of goods, in quantity as well as in kind, is one of the corner stones of success —F. C. Brunhouse.

REMARKABLE INVENTIONS.

Some of the inventions patented in Washington are as eccentric as they are ingenious. An odd, if useful, invention consists of a frame from which corks are suspended by means of strings. As the hour for waking draws near, this framework is gradually lowered over the heads of sleepers until, as the hour strikes, the corks perform a tattoo on the noses and faces of the sleepers until they awake.

The burglar alarm is sufficiently ingenious to deserve success. As soon as the would-be burglar steps on the mat in front of the safe or strong-room, his weight closes an electric circuit, a flashlight is ignited, the cap removed from a camera and the burglar's photograph taken without charge, for use as evidence against him.

Another invention enables the farmer to feed his horses and cattle in their stables without leaving his bed. He simply pulls a cord dangling at the head of his bed, and, forthwith, valves are opened and the proper allowance of fodder falls into the troughs.

By another clever device the street lamps of a town are electrically connected with a central clock. When the hour for lighting arrives, the circuit is closed, the gas turned on, and the lamps simultaneously lighted.

A really sensible and useful invention is one which dispenses with the ponderous and expensive machinery in use for tower clocks.

S. W. P.

Almost everybody in Canada now knows what that stands for.

It stands for the best that's made in paint—the paint that gives the greatest satisfaction, the paint that sells the quickest, the paint that's forging ahead—the paint that “covers the earth.”

Like every other article of worth S. W. P. makes its own way.

Its unrivalled success is the best proof of its merit.

S. W. P. has been on the market for more than twenty-five years. It has grown in sales every year—it's growing faster now than ever before. It'll increase the paint trade of any properly managed store.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

Walter H. Cottingham,
Managing Director,
Canadian Department.

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON

The timekeeping is done by a small master clock, which is electrically connected with motors in the tower. These motors move the giant hands and strike hours by means of a “make and break” mechanism in the master clock, which may be small enough to be carried to the clockmaker for any necessary repairs.—Engineers' Magazine.

CLEANING COPPER FOR RETINNING

A writer in The Metal Worker gives the following as the best method of retinning copper vessels; “Take the vessels, with the grease left by cooking on them, and heat them over a fire, on which it is proposed to retin them. When they are heated to a degree—say, high enough to melt solder—a little powdered sal ammoniac is thrown in and wiped around the vessel with a piece of bagging. Then take them off the fire, and, before they have cooled off altogether, pour in a little muriatic acid, which is to be rubbed over all of the parts to be retinned with a piece of clean bagging fastened to the end of an iron rod. They can now be washed and the whole surface, inside and out, scoured with sharp sand. Wash all the sand off and cover the inside with a solution of sal ammoniac and water, and the outside with salt and water. The vessels are now ready for retinning, which is done by heating as before and applying a little sal ammoniac

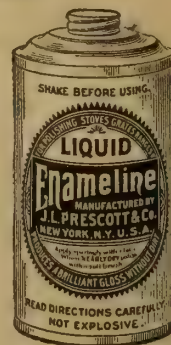
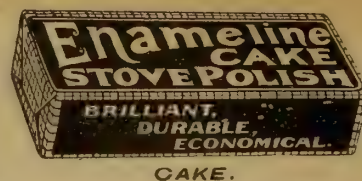
and some melted tin. The tin is brushed around the inside, over a little space at a time, until all is covered. A touch of muriatic acid, that has been ‘cut’ with zinc, on refractory places, while the vessel is hot, will generally cause them to tin properly.”

A PERMANENT WHITEWASH.

Important discoveries are often made by accident. A correspondent of a German paper says that a few years ago, it was decided to whitewash the walls and ceiling of a small cellar to make it lighter. For this purpose a suitable quantity of lime was slacked. A workman, who had to carry a vessel of common salt for some other purpose, stumbled over the lime cask and spilled some of his salt into it. To conceal all traces of his mishap, he stirred in the salt as quickly as possible. The circumstance came out afterwards, and this unintentional addition of salt to the lime excited curiosity, for the whitewash was not only blameless, but hard as cement, and would not wash off. After this experience, the writer employed a mixture of milk of lime and salt (about three parts of stone lime to one part of salt) for a court or light wall. To save the trouble and expense of a scaffold to work on, he had it applied with a garden syringe to the opposite walls. The results were most satisfactory. For four years the weather has had no effect upon it, and he has, he says, obtained a good and cheap means of lighting the court in this way.

Enameline

The Modern STOVE POLISH



We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., NEW YORK.

TRADE CHAT.

THE prospectus of The United States Cast Iron Pipe and Foundry Co. was issued last week. The company will be authorized to issue \$15,000,000, 7 per cent. preferred stock and \$15,000,000 common stock. The present annual output of cast iron pipe is stated to be 600,000 tons per annum, of which the new company will be able to supply, it is said, 450,000 tons.

John McDougall & Co.'s foundry in Drummondville, Que., was destroyed by fire on Sunday night.

S. E. Kent has opened out a good stock of general hardware, stoves, oils, etc., in Wingham, Ont.

The Majestic Silver Co., of New York State, have established a branch in Montreal. H. S. G. Ascher is manager.

John Bowman, the Barton street blacksmith, has just completed a wagon which bids fair to become popular for heavy drawing purposes. Recently, four tons of ice were piled on the wagon, and one horse was able to pull it with apparent ease.—Hamilton Herald.

The Polson Iron Works Co., Toronto, have received an order from The Richelieu and Ontario Navigation Co., for a first-class passenger steamer. It is to be a steel screw craft, 112 feet long, 22 feet 6 inches beam, to draw 6 feet of water, and to make a speed of 15 miles an hour. She will be especially adapted for river service, and the contract calls for the boat to be ready for service about the middle of June.

The Canada Hardware Company. (La compagnie de feronneries du Canada) has been incorporated in Montreal, with a capital stock of \$50,000 divided into 500 shares of \$100 each. The principal members of this company are Israel L. Lafleur, hardware dealer, and Joseph A. M. St. Armand, commercial traveler, Montreal;

F. X. E. Panneton, merchant, and P. E. Panneton, banker, Three Rivers, Que., and H. Beauchemin, contractor, Sorel, Que. They will handle hardware of all kinds.

Thos. Birkett, who for 32 years has carried on business as wholesale and retail hardware dealer in Ottawa, has been succeeded by The Thos. Birkett & Son Co., Limited. All the members of the stock company thus formed were for some years engaged in the business while it was under the proprietorship of Mr. Birkett.

Dr. G. Keminolfi, Rue de Mars, Para, Brazil, is professor of agriculture in the Jambo-assu Colony in Para. In the exercise of his duties he requires agricultural machinery used in the cultivation of maize, sugar, coffee, cocoa, and distilling apparatus. He writes that he also requires seeds and live stock of a high order for breeding purposes. Canadians able to supply these goods should communicate with Dr. Keminolfi, sending price lists, etc., as it is likely a good trade in these goods can be opened up in Para.

TIRESOME INVOICE CHARGES.

In our last issue, our special commissioner voiced, in his Canadian jottings, the growl of a hardware retailer in Toronto against the extra charges on British manufacturers' and merchants' invoices. An echo of that growl now reaches us from a Lincolnshire ironmonger, who agrees with the Toronto man that English invoices bring a tired feeling over the mind of the business-burdened retailer. He quotes an invoice for gutters, in which the following extras figure: "Extra for painting, 4 per cent.; advance, 5 per cent.; part carriage, 5s. per ton." With such an invoice, it is, as our correspondent avers, often "next to impossible to get at the exact cost of any particular articles. It is surprising, indeed, that manufacturers do

not, for the many goods with which it is quite possible, make a practice of sending net invoices. For export trade, as the British Consular representatives are, time and time again pointing out, the complicated invoices sent out by British manufacturers seriously handicap them in the race with German and American houses who quote through rates. It is abundantly clear to us that when both home and foreign traders are united in their detestation of "confounded extra charges," that a wholesale revision of the present system of invoicing is, to say the least, expedient.—Hardwareman, Birmingham.

WHY SOME MEN DIE POOR.

In a down east village store, the wiseacres sat in council on the nail kegs and cracker boxes.

"I'll tell you just what kind of a man Tom Jones was," said the chief critic, a sharp-eyed but not unkindly son of the soil. "He's dead now, and we can't hurt him by what we say, and I might as well speak out plain.

"He never got on in the world, and there was a mighty good reason for it. Fact is, he never did anything so 'twould stay done.

"He was a good worker; he lived on the next farm to me a dozen years, and I can testify that he wasn't lazy. He would mow, for instance, and was careful to pick up every stone in front of his scythe. He'd pick it up and carefully lay it out of the way behind him. Next year, when he came to mow that field, he'd pick up the same stones again and lay them behind him, and that way he picked those stones over and over year after year.

"That way of doing things gave him a good chance to work hard and die poor, and that was what ailed him all through life."

HARDWARE BARGAINS

We are now in position to sell all the goods we have contained in the warehouses of

Samuel, Benjamin & Co.
30 Front St. W.

The goods are all sampled and listed with prices in Plain Figures.

The prices are the regular Wholesale or Manufacturers' figures to the retail trade. In order to clear out the entire stock **during the next 30 Days**, we are prepared to give a **very liberal discount** which will enable the trade (**Wholesale or Retail**) to secure goods for their Spring business much below **Manufacturers' or Importers' Costs**. We strongly advise dealers to inspect this stock **without delay**.

H. S. HOWLAND, SONS & CO.

Stock consists of

Plumbers' Goods,
Tinware, etc.
Cutlery,
Building Hardware,
Mechanics' Tools, etc.

37 West Front Street

TORONTO.

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

W. G. SIMPSON, hardware dealer, etc., Moorefield, Ont., has assigned to Alex. Malcolmson, and the business is advertised for sale by assignee.

Assignment has been demanded of T. H. Massicotte, general merchant, St. Thecle, Que.

Crete Euchariste, general merchant, Grand Piles, Que., has assigned to Lamarche & Benoit.

Isaac G. Hutchinson, general merchant, Brighton, N.S., is offering 25c. on the dollar, unsecured.

Lamarche & Benoit have been appointed curators of Valiquet & Larivee, general merchants, Ste. Adele, Que.

A meeting of the creditors of the estate of Burns Bros., general merchants, Northport, N.S., has been called for Feb. 10.

PARTNERSHIPS FORMED AND DISSOLVED.

Guertin & Girard, carriagemakers, Farnham, Que., have dissolved.

Grant & Wilson, dealers in agricultural implements, Ottawa, have dissolved.

Connor & Richardson, hardware dealers, Madoc and Marmora, Ont., have dissolved.

Prevost & Fleury, wholesale and retail hardware dealers, Montreal, have dissolved.

Guimond & Sarrasin, hardware dealers, etc., Montreal, have dissolved, A. Guimond continuing.

A. P. Manson, general merchant, Sintaluta and Wolseley, Man., has admitted Donald and Robert Manson under the style of Manson Bros.

Low Ah Gam and Low Pim have registered partnership under the style of Ying Tai & Co., general merchants and contractors, New Westminster, B.C.

SALES MADE AND PENDING.

The assets of Thos. Kelly, tinware dealer, etc., Ottawa, are to be sold.

The assets of Girard & Laforest, general merchants, Grand Mere, Que., have been sold.

J. D. Thompson, general merchant, Buckingham, Que., has sold his stock at 68 1/2 c. on the dollar.

Kane Bros., general merchants, Erie and Craigtown, B.C., have sold their Craigtown branch to E. McGaughey.

The assets of Alph. Gaumond, general merchant, St. Jean des Chaillons, Que., are advertised for sale on the 14th inst.

CHANGES.

Wm. Atkin is opening out as stove and tinware dealer in Carberry, Man.

Frost & Martin have started business as painters in Kingston, Ont.

The Owen Sound Iron Works Co., Limited, has been incorporated.

The North American Fence Supply Co., Limited, has been incorporated.

Picard & Co., general merchants, Fraser-ville, Que., have been succeeded by Pineau & Co.

H. H. Huff, blacksmith, Cascade City, B.C., has been succeeded by Blanchard & Moore.

Ramsay & Morlock, general merchants, Durham, Ont., have been succeeded by S. F. Morlock.

The business of Leonce Dumas, general merchant, Village de Aulnais, Que., is being closed up.

Duncan Cameron, general merchant, Glenlyon, Man., has sold out to S. Mitchell, Gilbert Plains, Man.

Thos. Birkett, wholesale and retail hardware dealer, Ottawa, has been succeeded by Thos. Birkett & Son Co., Limited.

The Frost & Wood Co., Limited, manufacturers agricultural implements, Smith's Falls, Ont., has been incorporated.

John S. Morgan, tinsmith, Bridgewater, N.S., has registered consent for his wife, Frances C. Morgan to do business in her own name.

Mrs. Delina Gravel, wife of Prospere L. Massicotte, has registered as proprietress of P. L. Massicotte & Cie, general merchants, St. Hyacinthe, Que.

Dame Anna Quintal, wife of Alphonse Pallasico, has registered as proprietress of A. Pallasico & Cie., hardware dealers and contractors in Montreal.

FIRES.

John Malloy, carriage manufacturer, Hamilton, has suffered damage by fire.

C. P. Wright, grocer and hardware dealer, Aylmer, Que., has been burned out; partially insured.

DEATHS.

T. S. McIntee, general merchant, Burford, Ont., is dead.

John Ferguson, contractor and builder, St. John, N.B., is dead.

THEY DIDN'T ADVERTISE.

Since Christmas there have been ten failures reported of concerns that made a specialty of goods intended for holiday presents. Some of these concerns carried large stocks, and were entitled to the designation "big." In one or two instances the stocks were valued at more than \$250,000. The noticeable thing about each of the collapsed concerns is that it did not advertise in the newspapers.

The stores that did advertise were crowded with customers from the commencement of the holiday season to the hour of closing the night before Christmas. They all report the greatest holiday business in years.—New York Sun.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

PRIEST'S CLIPPERS

Largest Variety, Toilet, Hand, Electric Power.

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

SEND FOR CATALOGUE TO

American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co.

WORCESTER, MASS.

McLaskill, Dougall & Co.
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

PATENTS PROMPTLY SECURED

Write today for a free copy of our interesting books "Inventors Help" and "How you are secured." We have extensive experience in the international patent laws of 50 foreign countries. Send sketch, model or photo for free advice. **MARION & MARION, Experts.** New York Life Building, Montreal, and Atlantic Building, Washington, D.C.

The Toronto Patent Agency

Limited

CAPITAL - \$25,000

W. H. SHAW, ESQ., President.

JOS. DOUST, ESQ., Vice-President.

J. ARTHUR MCMURTRY, Sec.-Treas.

79, 80, 81, 82 Confederation Life Building
TORONTO, ONT.

General Patent Agents in procuring Home and Foreign Patents and all matters pertaining to Patents and Patent Causes, also the buying and selling of Patents, and the Organizing and promoting of Joint Stock Companies. List of 500 inventions wanted and list of Canadian Patented inventions for sale, mailed to any address free, address

The Toronto Patent Agency

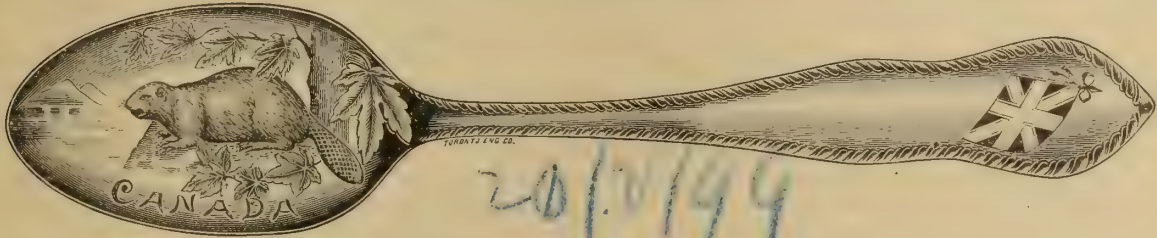
Limited

TORONTO, ONT.

WE ARE NOT MEMBERS OF THE

Silverware Trust or of any Silverware Association or Combine

And allow no outside interests to determine our business policy.



Canada Pattern in Electro Plate, Coffee Spoon size, \$3.60 per doz. list.

Tea Spoon size, \$6.00 per doz. list, less 50 per cent. trade discount.

The Toronto Silver Plate Co., Limited

Factory and Salesrooms,
King Street West,

Toronto, Can.

Manufacturers of Sterling Silver and Electro Silver Plate.

E. G. GOODERHAM, Manager and Sec.-Treas.



David Maxwell & Sons

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths, Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

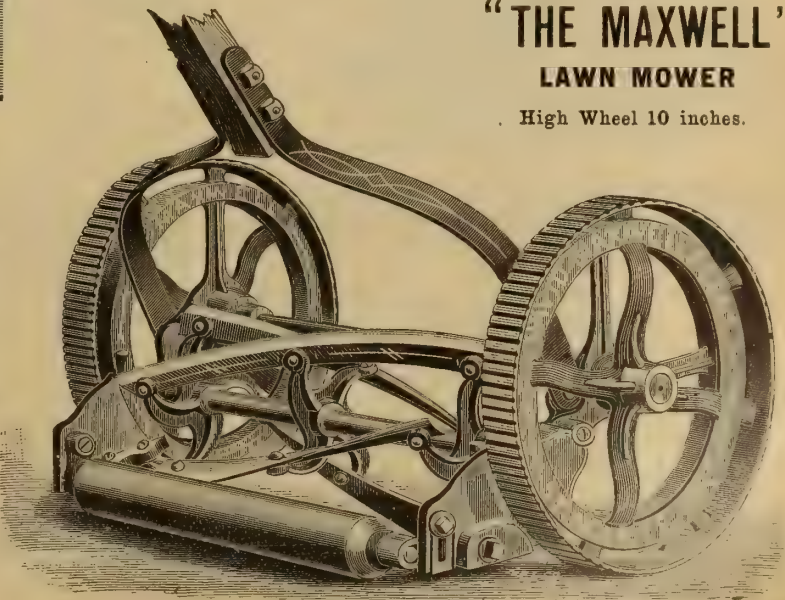
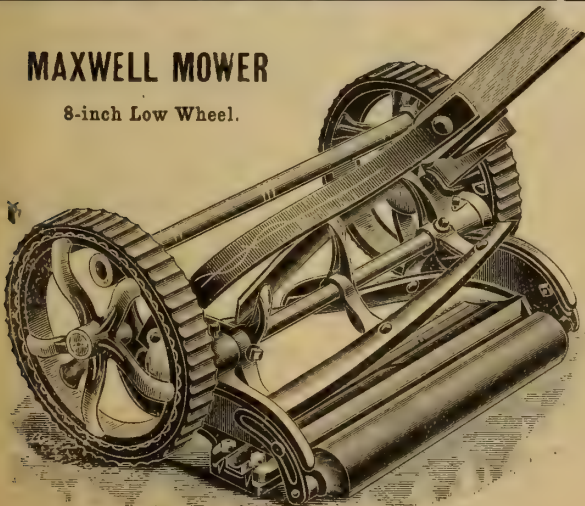
"THE MAXWELL"

LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Feb. 10, 1899.

HARDWARE.

DEMAND for shelf and all kinds of hardware has been so active lately that jobbers have been absolutely compelled, in self-defense, to advance prices on many lines to prevent their being sold short, and even this manœuvre fails to check the desire of traders throughout the country to secure supplies for future wants. In fact, jobbers, in every letter, are warning travelers to be careful regarding orders for forward delivery, and few are now accepted, except on the understanding that they are subject to any changes in values that may occur. Advances have been general, as a result of this disposition. Both barbed and plain wire are higher, and jobbers have marked up the price of wire nails and advised their travelers that still further appreciation in the near future is quite probable. Copper rivets have advanced again, and shot is now sold net, and the general situation reflects the utmost buoyancy.

BARBED WIRE—The advancing tendency

in this material continues, though demand is quiet. We quote the base price this week 15c. higher, at \$2.30 f.o.b. Montreal.

PLAIN WIRE—Orders are freely received for plain wire for future delivery, but jobbers are operating very conservatively, owing to the fact that first cost at the mills is uncertain. As a result of the increased inquiry, they have advanced their prices this week from 5 to 7 per cent. Discounts now are: Oiled and annealed, 30 and 5 per cent.; galvanized, 30 per cent., and coppered, 25 per cent.

BRASS AND COPPER WIRE—The strong feeling in brass and copper continues. Inquiry is active. We quote: Brass wire, Nos. 3-10, 18½c.; 11-16, 19c.; 17-18, 19½c.; 19-20, 20c.; 21, 21c.; 22, 22c.; 23, 23c.; 24, 24c.; 25, 26c. Copper wire, Nos. 0-10, 22c.; 11-16, 23c.; 17-18, 25½c.; 19-20, 26½c.; 21, 27½c.; 22, 28c.; 23, 29c.; 24, 30c.; 25, 32c. Extras, net: 1-lb. rings, 1c. per lb.; ½ and ¼-lb. rings, 2c. per lb.; 1 and 2-oz. rings, 4c. per lb.; brass spring, 2c. per lb. Extra for tinning, net: Nos. 8 and heavier, 2c. per lb.; 9 to 12, 2½c.

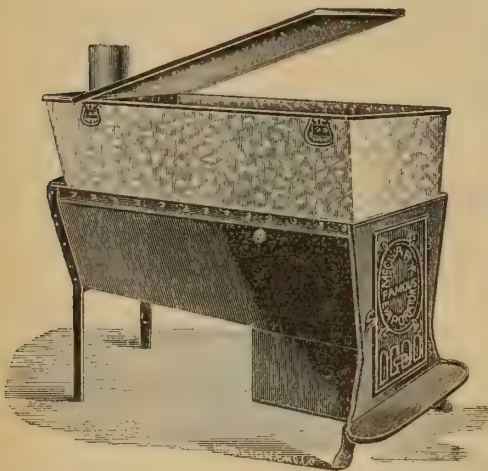
per lb.; 13 to 14, 2¾c. per lb.; 15 to 17, 3c. per lb.; 18 to 19, 4c. per lb.; 20 to 24, 5c. per lb.

WIRE NAILS—The increased demand for future delivery of wire nails has led jobbers here to impose an additional 5c. per keg advance on last week's rise, and values point still higher. We quote car lots f.o.b. Montreal \$1.85, and smaller quantities \$1.90.

CUT NAILS—These are sharing in the generally improved feeling of the iron market, though they do not display the same measure of activity as other lines. We quote \$1.75 f.o.b. Montreal, with the usual rebate.

HORSE NAILS—A fair inquiry is experienced for horse nails, and discounts are 50 per cent. on Standard and 50 and 20 on Acadia brand.

HORSESHOES—There is a moderate demand for horseshoes. We quote as follows: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.



MILK CAN and DAIRY TRIMMINGS

Milk Can Trimmings Creamery Can Trimmings

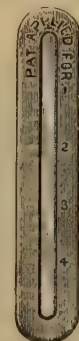
A full stock of tinned sheets for milk cans and cheese vats always on hand at lowest market prices.



FAMOUS EVAPORATOR OR... Feed Boiler.

CAN ALSO BE USED FOR MAKING SAP.
BEING LIGHT, CAN READILY BE
CARRIED INTO THE BUSH.

Boiler made of galvanized iron with tight seams, galvanized cover. Fire box has cast iron grates and linings, with steel flues, so protected as to prevent warping. Heat passes over the entire bottom of boiler.



Mica Creamery Gauge Patented

Cannot Leak
Cannot Break

For prompt shipment
order from McClary's.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



What does anyone gain by using common galvanized iron?

Nothing; and loses time (which is wages) and standing (which also is money).

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL Pig IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

SCREWS—There is a good trade passing in screws. Discounts are: Flat head bright, 85 and 5; round head do., 77 and 5; flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass, flat head, discount 25 per cent.; round head, 20 per cent.

BOLTS—Inquiry for these has been well maintained. Discounts are: Carriage bolts, $\frac{1}{4}$ to 5-16, 70 per cent.; $\frac{3}{8}$ and up, 60 and 10; machine bolts, $\frac{1}{4}$ and 5-16, 70 per cent., and $\frac{3}{8}$ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—Another advance is noted in copper rivets, while both iron and copper are in good inquiry. Discounts are: 65 per cent. on black and tinned and 37 $\frac{1}{2}$ on copper.

CORDAGE—Business is quiet in cordage and prices are unchanged. We quote: Sisal, 9 $\frac{1}{4}$ to 9 $\frac{3}{4}$ c. for 7-16 and upwards, and manila, 10 $\frac{1}{4}$ to 10 $\frac{3}{4}$ c.; smaller sizes, 10. advance on these figures.

CHURNS—In good inquiry, with values steady.

GREEN WIRE CLOTH—There has been a sharp advance in this material in the United States, and still higher prices are predicted on it. At present, jobbers hardly know what price to ask so as to protect themselves.

HINGES—Firm. We quote: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

SHOT—The advance in raw material has established a much firmer feeling in shot. It is now being sold net, ordinary, 6c.; and double chilled, 6 $\frac{1}{2}$ c.

CEMENT—Business in cement is quiet and prices are firm. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Quiet and steady at \$18.50 to \$24 per 1,000, as to brand.

METALS.

There has been no abatement to the strength of outside markets in heavy iron and metals, and, as the demand generally is in excess of the supply at producing points, the tendency is toward still higher prices if anything. Pig iron, copper, lead, spelter, all show advances, and while there has been some reaction in pig tin, the fact has not materially affected prices in this market.

PIG IRON—The firm feeling is retained in pig iron, and demand for future delivery is quite brisk. We quote Scotch pig at \$18.25 to \$19.50 for Summerlee and equal brands. No. 1 Hamilton, \$15.50 to \$16, and Ferrona, \$15.50 to \$16.

BAR IRON—There is a good inquiry for bar iron, both for prompt and future de-

"The Best is Always the Cheapest"

AND THIS APPLIES TO

Terne Plates

Of the well-known "DEAN" Brand, which is more heavily coated than all others.

A. C. LESLIE & CO.

Canadian Agents.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

NO SCREWS

JUST BORE

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

PIG TIN

INGOT COPPER

PIG LEAD

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

livery, and prices are firmly held, the base price being \$1 45.

HOOPS—Unchanged at \$2.

SHEET IRON—Steady, with more inquiry this week. We quote: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25; and 28, \$2.30.

SHEET STEEL—In moderate request. We quote: 10 to 16, \$2.50; 18 to 20, \$2.30; 22 to 24, \$2.45; 26, \$2.55; and 28, \$2.80.

GALVANIZED IRON—In fair demand and with light stocks jobbers have marked up prices here 15 to 30c. We quote: No. 28 "Queen's Head," \$4.25 to \$4.50, and "Comet" brand, \$4 to \$4.25.

INGOT COPPER—Values continue to advance outside, and with an active inquiry, prices here are much higher. Some business has been transacted at less money during the week, but at this writing 18c. is the general asking price.

SHEET COPPER—With ingot away up, jobbers ask an advance of 6 to 7c., the basis for plain sheet now being 25c., while tinned copper sheets are held at 27c.

INGOT TIN—There has been some reaction in this metal outside, but the fact has not affected spot prices, Straits still selling here for 27c.

PIG LEAD—Jobbers are firm on this metal, asking an advance of 25c. this week for jobbing quantities, which are quoted at \$4.25.

IRON PIPE—Prices are very firmly held, and makers refuse to contract ahead for large lots. We quote: Black pipe, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch, and $\frac{1}{2}$ -inch, \$2.35; $\frac{3}{4}$ -inch, \$2.80; 1-inch, \$3.85; $1\frac{1}{4}$ -inch, \$5; $1\frac{1}{2}$ -inch, \$6.70, and 2-inch, \$9. Galvanized, $\frac{1}{2}$ -inch, \$3.95; $\frac{3}{4}$ -inch, \$4.80; 1-inch, \$6.65; $1\frac{1}{4}$ -inch, \$9.15; $1\frac{1}{2}$ -inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—There has been an advance of $7\frac{1}{2}$ per cent. in lead pipe. We quote: ordinary 7c., and composition waste $7\frac{1}{2}$ c., discounts $17\frac{1}{2}$ per cent.

CANADA PLATE—With an advance abroad and higher prices for importation, jobbers are now asking more money from stock this week, and we quote: 52's, \$2.20; 60's \$2.30; 75's, \$2.40; full polished, \$3.10; galvanized Canada plate, \$3.85 for 52's.

TINPLATES—As a result of the continued strength abroad jobbers have advanced prices, and still higher figures are looked for. Demand for forward delivery is active, but sellers are operating very cautiously. We quote: Coke, I.C., \$3.15; charcoal, I.C., Allaway or Comet brands, \$3.50; do, I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do, I.X., \$5; Bradley's, \$5.80.

TERNE PLATE—Without change, but firmly held at \$6 to \$6.25.

COIL CHAIN—Steady. We quote: $\frac{1}{4}$ -inch, \$4.75 5-16, \$3.50; $\frac{3}{8}$, \$3.15; 7-16, \$3; $\frac{1}{2}$ -inch, \$2.80 and $\frac{5}{8}$ up, \$2.80.

SHEET ZINC—Firm at last week's rise, with a good inquiry at 7 to $7\frac{1}{2}$ c.

SOLDER—Continues to appreciate, values this week being $\frac{1}{2}$ c. higher at $15\frac{1}{2}$ c.

ANTIMONY—Unchanged at $9\frac{1}{2}$ c.

SPELTER—Higher outside and firmly held here at 6c. for American and $6\frac{1}{2}$ c. for V.M.

GLASS.

The window glass market is strong, advances from Belgium noting an advance of 4 per cent. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

An active trade is noted in paints and oils, as values point higher. Raw material is stiff on all outside markets, and an advance in white lead is expected at any moment. Orders for mixed paints for future delivery are numerous, and business on this account is checked more by the attitude of sellers than by buyers, as the former are afraid of being caught short of supplies. Turpentine and linseed oil are steady, and cod oil, as noted specially elsewhere, is excited and higher.

WHITE LEAD—Best brands, Government standard, \$5.62 $\frac{1}{2}$; No. 1, \$5.25; No. 2, \$4.87 $\frac{1}{2}$; No. 3, \$4.50.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, $4\frac{1}{2}$ c.; kegs, $4\frac{3}{4}$ c.; No. 1, casks, $4\frac{1}{4}$ c.; kegs, $4\frac{1}{2}$ c.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 65c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at $37\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white;

OAKEY'S

'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



Force
Lift
Cistern

Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
Galt, Canada.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Draw,
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, $13\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c.; 1-lb. tins, $15\frac{1}{2}$ c.

PETROLEUM.

There is no change in the petroleum market. We quote: "Crown Acme," $15\frac{1}{2}$ c., Canadian refined, $14\frac{1}{2}$ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, $19\frac{1}{2}$ c.

ASHES.

Without change: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Steady. We quote as follows: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Solder continues upward, being another $\frac{1}{2}$ c. higher this week.

There has been another advance of $2\frac{1}{2}$ per cent. in the price of copper rivets.

Plain and barbed wire have been advanced 5 per cent., and are stiff at the rise.

As a result of the advance in raw material, lead pipe is $7\frac{1}{2}$ per cent. higher than it was last week.

Jobbers here have marked up their range on Canada and tinplate from 10 to 25c., as to quantity and brand.

With fresh supplies costing more money, jobbers ask an advance of 15 to 25c. on galvanized iron, according to quantity.

The jobbing price of wire nails here has at last responded to the strength elsewhere, and values are 5c. per keg higher than they were.

ONTARIO MARKETS.

TORONTO, Feb. 10, 1899.

HARDWARE.

THE past week has been somewhat extraordinary for the advances in prices which have characterized it. Wire nails are firmer, and while some dealers are willing to accept last week's figures, others are demanding as much as 15c. per keg advance. Galvanized wire is $\frac{1}{2}$ so dearer. Copper rivets show an advance of about 4 per cent., and the Toronto dealers have been advised of an advance in shelf hardware by two of the manufacturers in the United States. The Canadian manufacturers of copperware and tinware have advanced their prices from 10 to 15 per cent. Copper pits are also dearer. The same is to be said in regard to miscellaneous wire nails, brass wire, shoe rivets, galvanized roofing nails, boat nails, shot and lead pipe.

THE ARTISTIC DESIGNS

And Serviceable Durability

Of our

METALLIC CEILINGS AND WALLS

Commend them to the most fastidious, as well as the most practical people.

They are taking the place of all other styles of interior finish, because they are more beautiful, and more economical in the end than others—offering as well a fireproof and sanitary finish that can't be equalled.

They sell readily, because they're better—to know about them is to decide in their favor.

If you aren't handling them, let us send you a catalogue.



Sample Design—Plate No. 229.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

The stove manufacturers, as will be noticed elsewhere in this issue, have slightly reduced the discounts and discontinued delivery to nearest railway and shipping points. By this means prices are from 3 to 4 per cent. higher.

BARBED WIRE—There has been no further change in the price of barbed wire of local manufacture, but advices from the United States show that prices there have again advanced, the figure now being \$2.10 f.o.b. Pittsburg to jobbers. It will thus be seen that the price is actually higher than in Canada. The demand for barbed wire in Canada is still light. We now quote f.o.b. Toronto: Four-point, \$2.10; 2-point, \$2.15; safety barbed wire, \$2.25. Staples are also dearer, being quoted 25c. higher at \$2.50 per 100 lb. for galvanized, and \$2.25 for bright.

PLAIN WIRE—An advance of 10c. per 100 lb. is to be noted in the price of galvanized fencing wire, and we now quote per 100 lb. f.o.b. Montreal, Toronto, Hamilton, and London as follows: Nos. 8, \$2.70; 9, \$2.25; 10, \$2.70; 11, \$2.80; 12, \$2.40; 13, \$2.55; 14, \$3.15; 15, \$3.40; 16, \$3.70; 17, \$3.80. The discount on bright and annealed wire is 30 per cent.; on coppered and tin, 25 per cent.; on brass and coppered wire the discount is 10 per cent. advance on the list.

WIRE NAILS—The price of wire nails in Pittsburg is, this week, \$1.60, which, with the Canadian duty, would mean \$2.20 per keg base, to say nothing of the freight, and this price is to jobbers. In Toronto, there are still jobbers selling wire nails at \$2, although they would not sell anything but small quantities at that figure. Some job-

bers, however, have advanced their price to \$2.15 per keg, and will not accept lower, and even at this price will not book carload lots. The future of the market is undoubtedly strong.

CUT NAILS—As noted last week, there are a few more cut nails going out than there were, on account of the belief that the strong position of the wire nail market will ultimately cause an advance in the price of this line. We quote \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—Trade in this line is just fair, and discounts are unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—The demand for these is still only moderate. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—The demand for screws keeps up well, and manufacturers report that they are steadily being called upon for salable sizes, showing that stocks are only in moderate shape. We quote discounts: Flat head bright, 85 and 5 per cent.; round head bright, $77\frac{1}{2}$ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

BOLTS—Trade in stove and tire bolts is brisk. The stove manufacturers are this year starting earlier than is usual, hence the good demand for the bolts which they use. We quote: Common carriage bolts, 5-16 inch, 70 per cent.; ditto, $\frac{3}{8}$ and

larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 5-16 and under, 70 per cent.; do., $\frac{3}{8}$ and larger, 65 and 10 per cent.; coach screws, 75 and 10 per cent.; blank bolts, 60 and 10 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, all sizes, $4\frac{1}{4}$ c.; hexagon, $5\frac{1}{4}$ c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—The feature of the market in this line is an advance in the price of copper rivets of about 4 per cent., the discount now being $37\frac{1}{2}$ per cent., instead of 40 per cent., as formerly. Trade in rivets and burrs shows some improvement this week. We quote as follows: Carriage section, wagon box rivets, etc., (steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, $37\frac{1}{2}$ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The rope market still continues dull. The outside markets, both in the United States and Europe, are fairly steady, both for sisal and manila hemp, although it is said that the manufacturers are inclined to hold off purchasing supplies. We quote: Sisal, 7-16 in. and larger, $9\frac{1}{4}$ c.; $\frac{3}{8}$ in., $9\frac{3}{4}$ c.; $\frac{1}{2}$ and 5-16 in., $10\frac{1}{4}$ c.; Manila, 7-16 in. and larger, 10c.; $\frac{3}{8}$ in., $10\frac{1}{2}$ c.; $\frac{1}{2}$ and 5-16 in., 11c.; deep sea line, $13\frac{1}{2}$ c. for water laid, and $14\frac{1}{2}$ c. for machine-made; hemp, 7 to 9c.; lath yarn, $8\frac{3}{4}$ c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—The demand keeps good at quotations. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Business in this line is only moderate. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—There is a fairly good business being done in the way of booking orders for future delivery. The price remains unchanged at \$1.20 per 100 square feet.

SCREEN DOORS AND WINDOWS.—A good many orders are still being booked for screen doors and windows for future delivery.

CUTLERY—Quite a nice sorting-up trade for this time of the year is being done in cutlery.

SPORTING GOODS—A number of fairly good orders have been received for am-

munition and gunpowder, but only a very occasional order is being received for firearms of any kind.

BRASS JACK CHAIN—There has been an advance of from 40 to 50 per cent. in the price of jack chain, as quoted by the manufacturers in the United States, advices to this effect having been received in Toronto this week. The manufacturers state that they have been compelled to make this advance on account of the rapid appreciation in the price of raw material.

COPPER PITS—There has been advance in the price of these and we now quote as follows, Common pits, 25c. per lb.; patent or spun, 29c.; planished, 29c. per lb.

WARE—The Canadian manufacturers have advanced the price of copperware 15 per cent., and tinware with copper bottoms is 10 per cent. dearer. Enameled ware is meeting with a brisk demand and a fair business is to be reported in tinware. A good many orders are being booked for pressed ware, milk can trimmings, sap buckets, etc.

CEMENT—No change. A fair trade is reported. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German, do, \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement \$2.50 per bbl.

METALS.

There is rather an easier feeling in pig tin, but metals generally rule higher than they did a week ago. Our discounts on charcoal plates, black iron, galvanized iron, sheet copper and brass, zinc spelter, zinc sheet, antimony, are all higher. White lead is 25c. per 100 lb. dearer.

PIG IRON—The market is fairly steady, and prices rule firm.

BAR IRON—A fairly good business is still being done at \$1.45 from stock and \$1.35 from factory.

BLACK IRON—The market for this is advancing, and there is every anticipation of higher prices ruling. The demand also shows some improvement. We now quote: 28 gauge, \$2.65 per 100 lb.; 26 gauge, \$2.55; 22 to 24 gauge, \$2.45; 18 to 20 gauge, \$2.55; 16 gauge and heavier, \$2.75. **SHEET STEEL**—Business moderate. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

GALVANIZED IRON—Prices are higher in both England and the United States, and local quotations have been advanced. We quote: "Queen's Head," 16 gauge, \$3.75; 18 to 24, \$4; 26, gauge, \$4.25; 28

gauge, \$4.50. American makes, 16 gauge, \$3.50; 18 to 24, \$3.65; 26 gauge, \$3.90; 28 gauge, \$4.25. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. Less than case lots are quoted 25c. per 100 lb. higher than above figures.

COPPER—A good business is reported in ingot copper, and prices are unchanged at $17\frac{1}{2}$ to 18c. per lb. Sheet copper is dearer at 23 to $23\frac{1}{2}$ c. per lb., and brazers' is quoted at from 23 to 25c. per lb.

PIG TIN—Business is just moderate. The outside markets are a little easier, but no change has been made in local quotations, which are still $27\frac{1}{2}$ c. for Straits and 28c. for "Lamb" and "Flag."

PIG LEAD—The market is firm and a fair business is being done. Imported is unchanged at last week's advance, being quoted at $4\frac{1}{4}$ c. per lb.

LEAD PIPE—The price is higher, the discount now being $17\frac{1}{2}$ per cent. instead of 25 per cent. We quote: Ordinary pipe, 7c., and composition waste, $7\frac{1}{2}$ c.; discount $17\frac{1}{2}$ per cent.

IRON PIPE—Trade is this week reported to be fairly good. We quote as follows: Black pipe, per 100 feet, $\frac{1}{4}$ to $\frac{3}{8}$ inch, \$2.30; $\frac{1}{2}$ inch, \$2.30; $\frac{3}{4}$ inch, \$2.80; 1 inch, \$3.85; $1\frac{1}{4}$ inch, \$5.15; $1\frac{1}{2}$ inch, \$6.55; 2 inch, \$8.95. Galvanized, $\frac{1}{2}$ inch, \$4.25; $\frac{3}{4}$ inch, \$5.10; 1 inch, \$6.87; $1\frac{1}{4}$ inch, \$9.80; $1\frac{1}{2}$ inch, \$12.50; 2 inch, \$17.

RANGE BOILERS—Business is fair. We quote as follows: Galvanized, 30 gals., \$5.50; 35 gal., \$6.50; 40 gal., \$7.50; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—Very little doing. We quote: All-bright, \$3.10; half-polished, \$2.60; all-dull, \$2.50.

TINPLATES—The demand is fair. Terne charcoal plates are 25c. dearer, quotations ranging from \$6.25 to \$7.75.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



**TEST THE MATTER---
SAVE THE DOLLARS.**

Cheapest can faucet on the market.

SAMPLE FREE.

J. M. LITCHFIELD
458 Quincy St., Brooklyn, N.Y.

Not in the Combination

Write for prices on

MRS. POTTS S&D IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.

TINNED IRON—Dull. Prices have been advanced $\frac{3}{4}$ c. per lb., and we now quote 30 x 72 (24 gauge) at 6c. per lb.; cut sizes, $5\frac{1}{4}$ c. per lb.

COIL CHAIN—There is not much doing, but prices are firm. We now quote as follows: 3-16 in., \$7; $\frac{1}{4}$ in., \$6.; 5-16 in., \$3.50; $\frac{3}{8}$ in., \$3.15; 7-16 in., \$2.95; $\frac{1}{2}$ in., \$2.80; $\frac{3}{4}$ in., \$2.70; $\frac{7}{8}$ in., \$2.60.

SHEET ZINC—Another advance of $\frac{1}{4}$ c. per lb., and we now quote $7\frac{1}{2}$ c. for cask lots, and $7\frac{3}{4}$ c. for part casks.

ZINC SPELTER—Quotations are $\frac{3}{4}$ c. per lb. higher than a week ago, and we now quote foreign at $6\frac{1}{2}$ to $6\frac{3}{4}$ c. per lb.

SHOT—This has been advanced, the price now being net list, instead of a discount of 17 per cent. as formerly.

SOLDER—Is firm and unchanged. We quote: Half-and-half, at $16\frac{3}{4}$ to $17\frac{3}{4}$ c. per lb.; refined at $16\frac{1}{4}$ to $16\frac{3}{4}$ c. per lb., and plumbers' at $15\frac{3}{4}$ to $16\frac{1}{4}$ c. per lb.

ANTIMONY—There has been a further advance, Cookson's now being quoted at 11 to $11\frac{1}{2}$ c. per lb. Some business is being done.

PAINTS AND OILS.

There is a good general trade doing. There seems to be an earlier movement this year than was noted in the past few years. The indications of higher prices have, no doubt, helped to cause this early demand. And those who purchased early made no mistake, as prices all along the line are decidedly firm. The turpentine situation is unchanged. Oil is stiff, with the English market advancing. The stiffening of the feeling re white lead has culminated in an advance of 25c. for all grades of white lead and 15c. for genuine red lead. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62 $\frac{1}{2}$; No. 2, \$5.25; No. 3, \$4.87 $\frac{1}{2}$; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5.15; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to $6\frac{1}{2}$ c.; orange mineral, $6\frac{1}{2}$ to $7\frac{1}{2}$ c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quan-

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.
5 Factories.
5 Brands.

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS. Estimates and designs on application.

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tity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, $9\frac{1}{2}$ c. per lb. and $10\frac{1}{2}$ c. for single tins; United States, in cases, $8\frac{1}{2}$ c., and $9\frac{1}{2}$ c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

Recent cable advices note an advance of two points, equal to about 7 per cent., in the price of window glass in Belgium. The competition for import orders, however, continues keen at a price below a profitable basis. The movement from stock is good. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

No change. Demand active throughout. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per lb.; bottoms, 8c.; heavy copper, $8\frac{1}{4}$ to $8\frac{1}{2}$ c.; light scrap brass, 4 to $4\frac{1}{2}$ c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, $7\frac{1}{2}$ c.; scrap lead, $2\frac{1}{8}$ to $2\frac{3}{8}$ c.; zinc, $2\frac{1}{4}$ c.; scrap rubber, $3\frac{1}{2}$ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES—A weak feeling is still noted. Prices are still unchanged. We quote cow

hides as follows: No. 1, $8\frac{1}{2}$ c.; No. 2, $7\frac{1}{2}$ c.; No. 3, $6\frac{1}{2}$ c.; cured, $9\frac{1}{4}$ c. Steer hides are worth $\frac{1}{2}$ c. more.

CALFSKINS—We quote nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c.

SHEEPSKINS—An advance of 5 to 15c. is noted for sheepskins and lambskins, which are now quoted at 90c. to \$1.

WOOL—No change. Market still unsteady at 15c. for fleece and 10c. for unwashed.

SEEDS.

The market is flat. Dealers quote the price of red clover at \$3 to \$3.50 outside; alsike is 25c. higher than a week ago, now being quoted at \$2.50 to \$3.75 outside. Scarcely any timothy is offered, except an occasional lot of machine-threshed, which is quoted at \$1 to \$1.25. No flail-threshed is offering, but bright unhulled stock is worth \$1.60 to \$1.75.

PETROLEUM.

A good business is reported, with no change in prices. We quote at Toronto: Canadian, $13\frac{1}{2}$ c.; Sarnia water white, 15c.; American water white, $16\frac{1}{2}$ c.; Pratt's astral, 16c., in bulk.

COAL.

There is no change in price, but a famine of the nut size is reported. Orders at wholesale centres for this size are daily refused. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

Tinned iron is $\frac{1}{2}$ c. per lb. dearer.

Galvanized wire is 10c. per 100 lb. dearer.

Terne charcoal plates are 25c. per 100 lb. dearer.

Window glass has advanced two points in Belgium.

White lead has advanced 25c.; genuine red lead is 15c. dearer.

H. S. Howland, Sons & Co. report that they are selling a good many goods from

the shelf hardware stock of M. & L. Samuel, Benjamin & Co., which they purchased some time ago.

Copperware is 15 per cent. dearer, and tinware with copper bottoms is 10 per cent. dearer.

Black iron, galvanized iron, zinc spelter, zinc sheet, antimony, sheet and braziers' copper are dearer.

Two large manufacturers of shelf hardware in the United States have advised the Canadian jobbers of an advance of about 10 per cent. in prices.

The B. Greening Wire Co. have found it necessary that their secretary, Mr. R. H. Merriman, should spend more time in the offices of the company and be more at liberty to attend to special matters. To enable him to do this, Mr. J. A. Sarvis has been engaged to represent them in the northern part of Ontario. Mr. J. A. Sarvis comes from Fort William, where he was engaged as head clerk with W. S. Piper. Mr. Merriman will still cover the balance of his old ground.

MAGNOLIA METAL WON.

The protracted law cases which have been pursued in England by the Magnolia Anti Friction Metal Company, Limited—the London branch of the Magnolia Metal Company—in defense of their rights to their brand and their business, has been decided in their favor against John Sugden, W. E. Watson, A. B. Brown, The Atlas Bronze Company, Limited, and The Atlas Metal Company, Limited, and others, who were enjoined respecting patents—trade marks—and from engaging in any anti-friction metal business, with costs and damages.

The text of the decision, as appears in the English papers at hand, is very severe and sweeping.

The Magnolia Metal Company is to be congratulated with this result. The cases have been prosecuted with great vigor, and with large expense, but the decision is of value to Americans registering under and appealing to English laws to know that they do and will protect when properly appealed to.

IRON VS. STEEL.

It has been recently discovered by certain large consumers of steel in the Black Country, that for such purposes as iron hurdles and galvanized roofs, iron, at a corresponding price, is much to be preferred to steel. Steel hurdles and fencing corrode in the parts placed underground much more readily than iron, and steel sheets, owing in part to their greater smoothness of surface, do not so readily absorb, nor so long retain, the spelter composition as iron. There is no

doubt that this matter will soon be searchingly investigated by those chiefly concerned, and the result will be awaited with much interest.—Hardwareman.

A PREVALENT PRACTICE.

“TO judge a man by outward view is good advice, though not quite new.” No one can, says Stoves and Hardware Reporter, expect advice to be particularly new, for the shortcomings which it is supposed to assist in eradicating are by no means of recent acquisition. The fault mentioned in the couplet quoted prevails almost universally everywhere in Christendom, notwithstanding the fact that such judgments are usually erroneous. To jump at conclusions too readily about anything is a mistake, but, where humanity is concerned, it is trebly reprehensible. That many people are subject to this error proves the gigantic proportions to which the practice has attained.

In stores, for instance, clerks are seen obsequiously rushing about to do the bidding of a well-dressed patron, taking extraordinary pains to please him, presuming from the fact that his apparel is in good style that he must be an opulent personage, whereas it may be ascertained that his appearance belies his circumstances and that most of his thoughts are concentrated upon and the major part of his income expended upon maintaining a large and varied wardrobe. Such is, of course, not always the case, but it may be quite frequently. On the other hand the plainly-dressed individual may possess a much larger bank account and feel a proportionate desire to spend some of it.

It is an unfortunate condition of affairs which exists in stores where customers say to themselves before they start out to make purchases, that if they put on their best clothes they will be waited upon more attentively. Why this should be so, it is hard to say, because snobbishness should be allowed to have no place in the manner of the clerk toward and his treatment of customers. He should do his duty regardless of appearances, than which there is nothing more misleading in the world.

THE B. GREENING WIRE CO.

The B. Greening Wire Co., Limited, have in contemplation considerable additions and improvements to their manufacturing premises, rendered necessary by their adopting more up-to-date methods in their largely increasing business. As their present buildings do not meet these requirements, they have asked the Hamilton city council to make a fixed assessment for ten years, based on the assessment of 1898. If

the council grants this reasonable request, it is understood the additions will be made at an early date.

The B. Greening Wire Co., Limited, are to be congratulated on these signs of prosperity in their business.

LAMPS.

Do not neglect to realize all the possibilities for profit which exist in the stock of lamps, if they are properly selected and pushed in making sales, says Stoves and Hardware Reporter. The designs and prices vary so much that any and all classes of trade may readily be satisfied, however capricious or fastidious they may be. Lamps wear out as well as everything else, or they may get broken; in either case they frequently have to be replaced or purchased in order to increase the lighting facilities which may have been inadequate heretofore. In catering to an extensive or varied trade, all the styles should be kept in stock from the small night lamp to the gorgeously decorated parlor lamp.

The proverbial thing of beauty which is such a promoter of joy can be most easily realized in this particular line of goods. Many lamps are truly works of art whose charms do not pall upon one, even after continued contemplation. A window display ought to be made exhibiting the superior qualities of the new stock, which should be complete by this time. Specialized windows, as a display of one kind is called, have their advantages, and are frequently advocated, but, as a rule, the mixed or stocky window which is not too heterogeneous finds greater favor and attracts more attention.

It would be advisable under such circumstances to have one particular line form the chief object of interest and introduce allied and congruous lines to set off the other. example, the paraphernalia of a grate could occupy the centre of the window. The brass fire set, fender and fancy coal vase could be disposed naturally about it. At the side there should be a brass stand or fancy metal jardiniere holding an attractive lamp; another kind of the latter ought to be suspended from the ceiling, and, where preferred, several of these might be hung at interval from hooks.

On shelves at the sides might be placed some night lamps in different designs. In conjunction with these a piano lamp or two ought to be placed on the other side opposite from the banquet lamp on the stand. A black iron umbrella stand would look well in such a display. It would fill out a corner as well as bring itself into prominence.

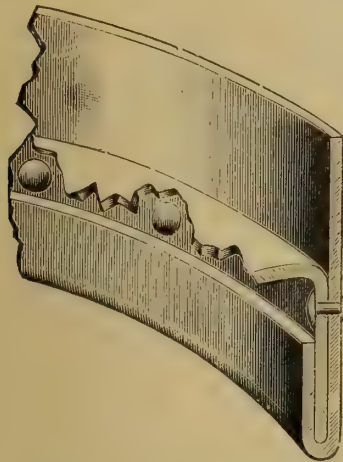
SAMPLES OF SAD IRON HANDLES.

Mr. A. Gibb has been appointed agent for M. Schroyer's Sons & Co., and anyone wanting samples of Mrs. Potts sad iron handles can have them by writing Mr. Gibb and mentioning this paper.

Milk Can Trimmings

DAVIDSON'S PATENT MILK CAN BOTTOM

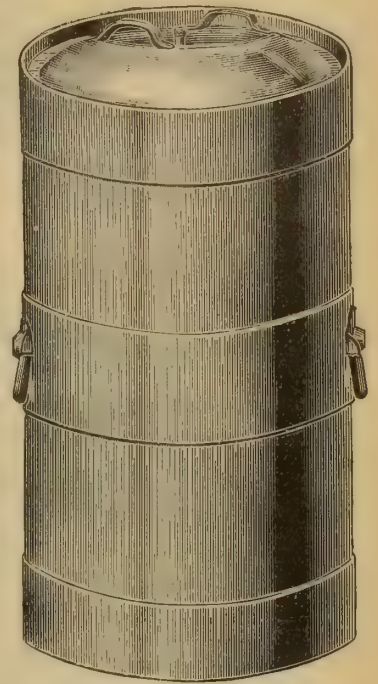
The reason is very simple, as will readily be seen by cut showing a section
The Hoop is folded inside in such a way that the bottom fits snugly into it, leaving no space for dirty water to corrode, making the bottom practically in **one piece**.



No inside hoop required to make up weight, or to cover a scant edge of bottom.

As nothing but the very best quality of Siemen's Steel can be used in making these hoops, we guarantee that the grain is not broken in bending.

All our Bottom Hoops are made full width, 4 in., same as Top Hoops.



The Thos. Davidson Mfg. Co., Limited
MONTREAL.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED,
Montreal.

Good Advertising

For Wide Awake Retailers

By F. James Gibson.

Our "Good Advertising" department is to help our subscribers to do better advertising. The gentleman whom we have selected as its conductor is well known as one of the foremost advertising specialists of the day. Any of our readers who desire the benefit of Mr. Gibson's criticisms on advertisements or advertising methods, or his advice on any advertising subject, can have it or both entirely free of charge by writing to him in care of this journal.

If correspondents so desire, fictitious names or initials may be used for publication. But all requests should be accompanied by the subscriber's name,

FORCIBLE FACTS FOR FEBRUARY.

FEBRUARY sees two waves of merchandise—the incoming and the outgoing. One puts in the possession of your patrons the Winter stocks at small prices—the other swings in your store Spring stocks fresh with fashion's latest fancies.

The most important February event in merchandising is the great midwinter sale. It includes every article in stock, and seems to convey the impression that if bargains were ever plentiful they are during this sale.

Do not forget to carry out this thought in your selling, as well as in your advertising. "Bargains" should be the slogan of your advertising men. Your clerks and your prices and values should echo and reecho the cry until the fitful fever of midwinter retailing is aroused into the tensest activity.

There is no road to a man's or woman's heart—we should say pocket-book—but if you secure one you generally secure the other, like the electric motor and quickly traveled road of good goods and small prices. Therefore, let your Winter goods travel this road, and let the propelling force be good advertising.

* * *

If in your town there is a daily, use it liberally every day. Do not bother with any other form of advertising unless you can find some "snap" in ready-made posters. In such a case, post your town liberally.

Perhaps your town only boasts of a weekly. Use it with such force and bigness as to surprise and overawe your competitors. Use reading notices liberally. They cost you nothing beyond the preparation, and the enterprising newspaper publisher is always glad to print them.

* * *

A word or two about window displays. Be effective. Do not labor too hard in attempting the artistic. A window full of ribbons, with a solitary full-sheet show card in the centre, with the words, "Choice, 10c. per yard," is far more trade attracting and trade convincing than the effort that shows a dozen or more styles with a dozen or more price tickets.

The highest art is simplicity. The more complex the subject, the less the effectiveness. Take a dress goods subject, for instance: Is not a window showing folds of henriettas and other black fabrics forming a background to three or four folds of the same cloths, the whole surmounted with a neat black and white show card, more satisfactory to the eye and more impressive to the mind than a conglomerate arrangement of blacks and colors?

Even such an ordinary subject as dishpans can be made into a striking window display by following out the same idea.

One of New York's largest department stores makes a February specialty of suits for men and women at \$7.77. This figure is as successful as it is odd. Perhaps you can use this idea.

One window given to dress goods at a uniform price, another given to men's clothing at a uniform price, another to ladies' garments at a uniform price, another to underwear at a uniform price, and so on, would make a pleasing change from the almost universal style of having each window show many varieties at many prices.

Linens, blankets, housekeeping dry goods of all sorts, as well as the other lines, come under the sway of the great midwinter sale. Price cards in profusion should be in every department, and every clerk should be on his metal to make the sale a success.

* * *

The stocktaking sale usually takes place late in January or early in February. The muslin, underwear, clothing, suits and cloaks, with other lines, have had their innings in the January sales, but the "waifs and strays," brought to light through stocktaking, are to go out during the midwinter sale.

It is now a universally recognized fact that forced sales are better than the carrying over of goods from one season to another.

Advertising the great midwinter sale should be forcibly pregnant with thought—terse and attractive. Every sentence should convey an idea.

Let the writer study Kipling, and see how that master of English marshals facts in the clearest compress. Were Kipling an advertising writer he would be the best in the profession, for he has invention, animation, audacity, logic, a desire for truth, and he goes to the point like lightning. But, as he is not an advertising writer, you must content yourself with his stories.

The Schilling tea ads. of San Francisco and the Murphy varnish ads. in the magazines are the work of J. E. Powers, the greatest living advertising writer. See them. Study them.

* * *

Indirection in advertising writing is a good thing to cultivate. Here's a sample of it that strikes me as being right up to the mark. I clipped it from Munsey's for January:

DEAR MADAM:

Two or three customers can compel any dealer to keep Macbeth's lamp chimneys. Does he want your chimneys to break?

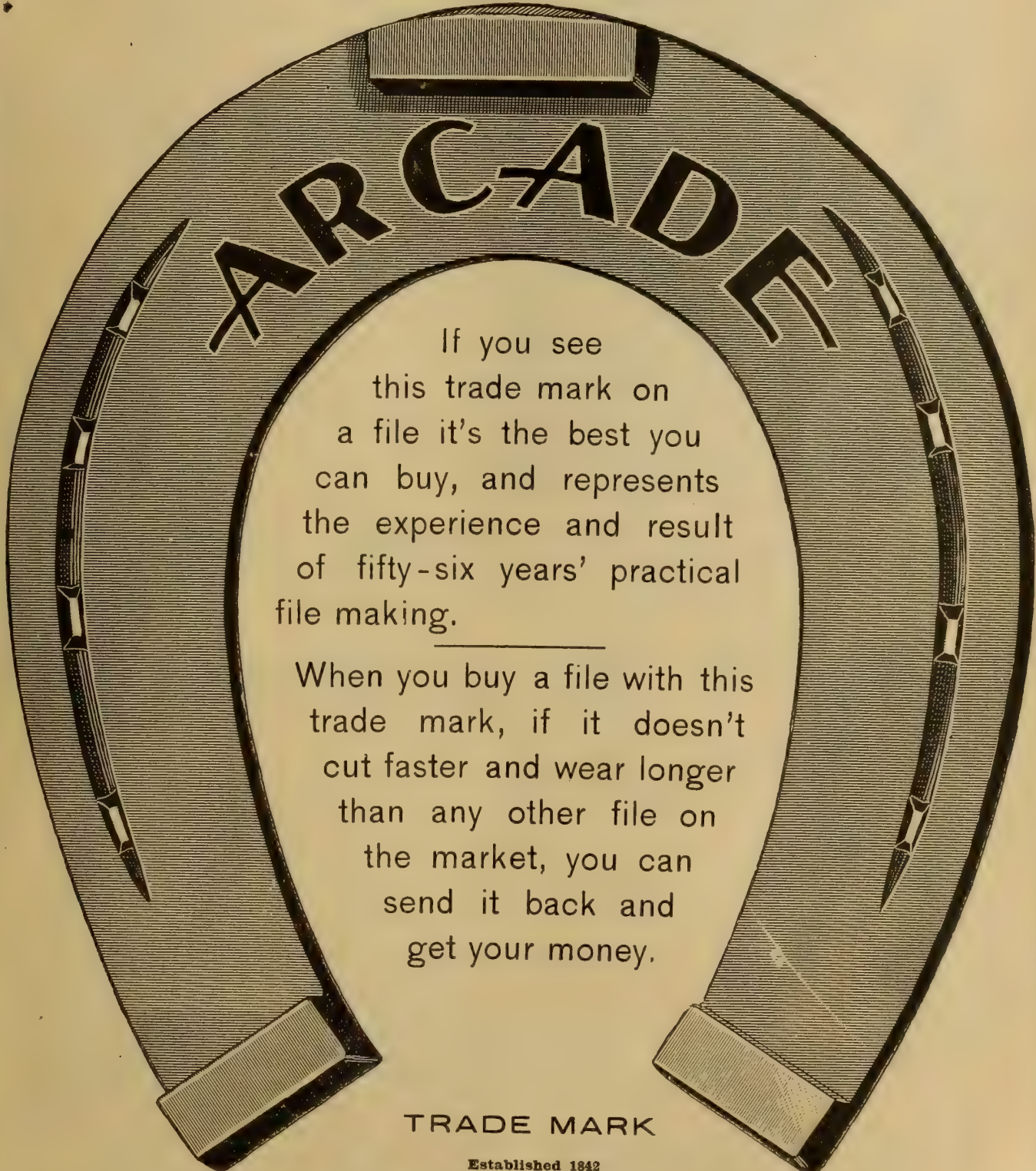
Get the Index.

Address Pittsburgh, Pa.

Write MACBETH.

Fifty-Six Years Making Files

We ought to know how.



ARCADE

If you see
this trade mark on
a file it's the best you
can buy, and represents
the experience and result
of fifty-six years' practical
file making.

When you buy a file with this
trade mark, if it doesn't
cut faster and wear longer
than any other file on
the market, you can
send it back and
get your money.

TRADE MARK

Established 1842

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works, ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MANITOBA MARKETS.

WINNIPEG, Feb. 7, 1899.

THERE is really no business doing just now beyond the taking of orders, and the weather has been so intensely cold that travelers are complaining that it is retarding business.

There have been a considerable number of changes in the price list, in sympathy with advancing prices elsewhere. Tinplates have advanced 50c. per 100 lb.; galvanized iron, 25c. per 100 lb.; Canada plates, 25c. per 100 lb. On the other hand, there is a drop of 50c. per 100 lb. on both sisal and manila rope. Other changes are looked for in a few weeks.

Since the winter of 1882-3 Winnipeg has not enjoyed or suffered such a period of continued cold weather. This is always a quiet season, but there is no doubt the great cold has made it somewhat quieter than usual. However, it is an ill wind that blows nobody good, for the slack business seems to have enlarged the number of entries for the great curling bonspiel. The city is full of men, stones and brooms, and the display of trophies to be competed for is really magnificent.

In addition to the curlers, there will be 300 lumbermen in town for their annual convention, and the dairy, pure bred stock and horticultural associations are all meeting this week. Very cheap rates are in force on all the railways, and many visitors, who have no interest in any of the gatherings mentioned, are taking advantage of them to visit the city.

The city travelers have decided on a smoking concert for their annual gathering this year. It will be held sometime during this month.

Price list of the week is as follows:

Barb wire, 100 lb.	\$2 50
Plain twist	2 40
Wire and staples	2 90
Oiled annealed wire	10 2 80
"	11 2 90
"	12 2 75
"	13 2 90
"	14 3 00
"	15 3 50
Wire nails, 30 to 60 dy, keg	2 35
" 16 and 20	2 40
" 10	2 45
" 8	2 50
" 6	2 65
" 4	2 75
" 3	3 00
Cut nails, 50 and 60 dy	2 15
" 20 to 40	2 20
" 10 to 16	2 25
" 8	2 30
" 6	2 35
" 4	2 60
" 3	2 85
" 3 fine	3 15
Horse nails, 45 per cent. discount	
Horseshoes, iron, light, medium and heavy, keg	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.05 basis	
Swedish iron, \$5 basis	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50

Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 gauge	3 75
18 to 22 gauge	4 00
24 gauge	4 25
26 gauge	4 50
28 gauge	4 75
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 00
Ingot tin	28
Canada plate, 18 x 21 and 18 x 24	3 25
Sheet zinc, cask lots, 100 lbs	8 00
Broken lots	8 50
Pig lead, 100 lbs.	4 25
Wrought pipe, black, 1/4 inch	2 50
" 3/8 inch	2 75
" 1/2 inch	3 00
" 3/4 inch	4 00
" 1 inch	5 00
" 1 1/4 inch	7 00
" 1 1/2 inch	8 50
" 2 inch	11 50
" Over 2 inch	65 p.c.
Rope, sisal, 7-16 and larger	10 50
" 3/8 and 5-16	11 00
Manilla, 7-16 and larger	11 50
" 3/8 and 5-16	12 00
" 1/2 and 5-16	12 50
Solder	13 00
Cotton, all sizes, lb.	28
Axes, per box	15
Screws, flat head, iron	\$5.50 to 800
Round	85 p.c.
Flat " brass	77 1/2 p.c.
Round "	80 p.c.
Bolts, carriage	72 p.c.
Machine	60 p.c.
Tire	60 p.c.
Sleigh shoe	55 p.c.
Rivets, iron	65 p.c.
Copper, No. 8, lb.	50 p.c.
Spades and shovels	28c.
Harvest tools	40 p.c.
Axe handles, turned, s. g. hickory, doz	60 to 60-10 p.c.
No. 1	\$2 50
No. 2	1 50
Octagon extra	1 25
No. 1	1 65
Linseed oil, raw, per gal	1 25
boiled	58
Ammunition, cartridges, Dominion R.F.	60
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M.	16 00
American, M.	16 25
Shot, Ordinary, per 100 lbs	6 25
Chilled	6 75
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	.70 and 30 p.c.
Granite ware, according to quality	.50 to 60 p.c.

A SIGN OF PROSPERITY.

A local member of The Toronto Board of Trade this week received a printed notice of a meeting, the envelope containing which carried a two and a five-cent stamp.

"I suppose it is a sign of prosperity," remarked the recipient, as he held up the envelope.

"Or a desire to increase the revenue of the Post Office Department," remarked another.

P. E. Ruttan & Co., general merchants, Manitou, Man., have sold out to C. R. Gordon.

George H. Burkett, general merchant, Bridgewater, N.S., has registered consent for his wife, Agnes L. Burkett, to do business in her own name.

THE CANADA PAINT COMPANY LIMITED

OIL,
ZINC,
GLUE,
OXIDE,
PUTTY,
BORAX,
STAINS,
DRYERS,
SMALTS,
FILLERS,
BRONZE,
WHITING,
SHELLAC,
GRAPHITE,
RED LEAD,
VERMILION,
VARNISHES,
GOLD LEAF,
KALSOMINE,
RAW UMBER,
RAW SIENNA,
LINSEED OIL,
TURPENTINE,
LAMP BLACK,
PARIS GREEN,
TUBE COLORS,
TOP DRESSING,
LIQUID PAINTS,
BURNT UMBER,
BOAT VARNISH,
BURNT SIENNA,
PUMICE STONE,
ROOFING PAINT,
YELLOW OCHRE,
GOLDEN OCHRE,
HOUSE VARNISH,
COACH VARNISH,
SHINGLE STAINS,
BICYCLE ENAMEL,
CHROME YELLOW,
GOLD SIZE JAPAN,
GRAINING COLORS,
PURE WHITE LEAD,
DOMESTIC COLORS,
ULTRAMARINE BLUE,
STOVE PIPE VARNISH,
WINDOW BLIND GREEN,
LIQUID COACH COLORS,
PURE PREPARED PAINTS,
TRIPLE STRENGTH COLORS,
SUPERFINE COACH COLORS.

FACTORIES.

LESLIE STREET, TORONTO.
JANION WHARF, VICTORIA, B.C.
ST. MALO, THREE RIVERS.
WILLIAM STREET, MONTREAL.

THE CANADA PAINT COMPANY LIMITED

THE EXCEPTIONAL SUCCESS

OF OUR NEW

Imperial Oxford

since it was placed on the market is an evidence that its superiority is appreciated.

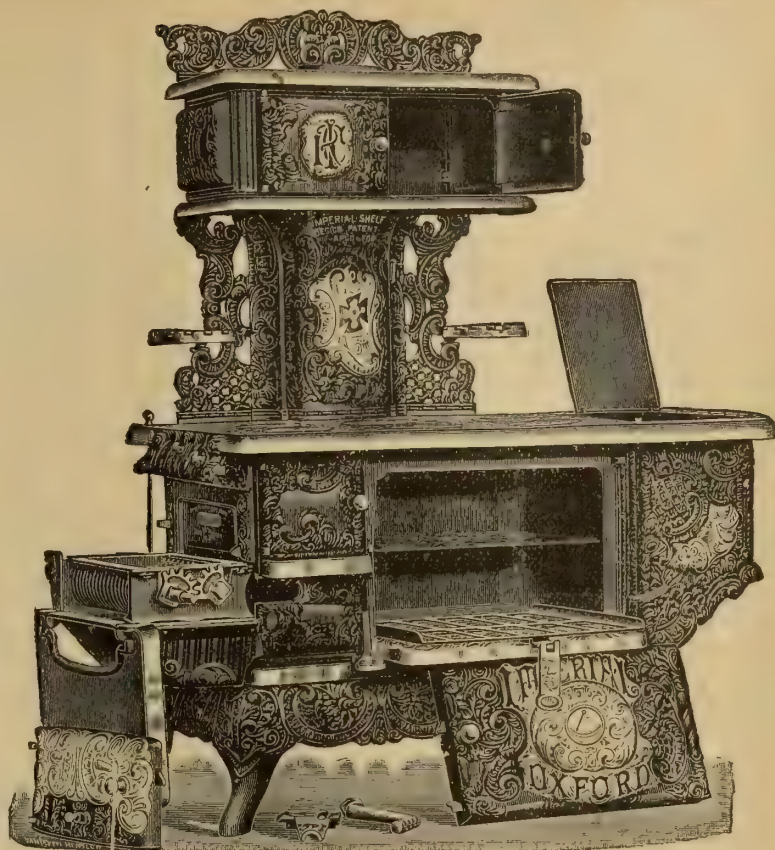
This range has been the success of the season—selling so rapidly that our capacity was taxed to the utmost to fill the orders received last fall.

Won't your customers appreciate its . . .

**Draw-out Oven Rack,
Oven Thermometer,
Front Draw-out Grate,
Diffusive Flue Construction,**

and other improved features, as well as its handsome durability?

Write for Price List, and carry them in stock.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

Henderson & Potts

MANUFACTURERS OF

NOVA SCOTIA PAINT AND VARNISH WORKS.

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., MONTREAL



NEW YORK METAL MARKETS.

PIG TIN—The market was again more or less uncertain, with rather weaker undertone, yet no radical change in values. Business here was of ordinary type, and the negotiation, generally, very similar to that which has been general for some time past, with nothing encouraging to purely speculative ventures. London cables were again somewhat lower, and tended to slightly affect the surface of the local market. Here, business was at prices in line with 24c. net, and 24½c. f.o.b. for lots of five tons or more, and 24¾ to 24½c. for smaller quantities.

COPPER — Fancy prices are still being quoted in some quarters, and it is stated that those figures are obtained for small lots for early delivery. Business on anywise large scale has not been effected, and seemingly could be done at within ½c. per lb. of the top quotations. Fair rates on large lots are 17½ to 17¾c. for Lake Superior ingot, 17¼ to 17½c. for electrolytic bars, etc., and 17 to 17¼c. for casting stock.

PIG LEAD—Consumers are buying to a moderate extent only and in a very indifferent way in this market. Offerings are more or less reserved, however, and sellers remain fairly firm on prices, few offerings at less than 4.70c. for either near or distant delivery. Purchases might have been made at 4.65c. to a limited extent.

SPELTER—Holders are very firm on prices for either prompt or early shipments, and quote 6 to 6.10c. for carload or larger lots delivered here. Dealings in this market are moderate, as is also the demand, but outside business is of considerable volume and at full prices.

ANTIMONY—Only fair jobbing business is passing, but prices remain strong at 9½ to 10c., as to brand.

TINPLATE—Fair business is being effected here. Elsewhere the dealings, it is reported, are of good volume, and prices are very firm throughout.

IRON AND STEEL.—The pig iron market continues strong, with offerings moderate for early delivery, and the movements into consumptive channels heavy. Old material is firm also, but business is restricted by the moderate amount of stock obtainable in this locality.—N. Y. Journal of Commerce.

FILE-MAKING BY HAND.

File-making by hand is described as follows by an exchange: Bars of Swedish steel are clipped into lengths and forged roughly to shape. They are then known as blanks, and are next annealed and ground to more perfect shape; the surfaces to be cut are then burnished. The blank of soft, polished steel is then laid on an anvil, and held there with straps pressed down by the operator's

feet. In his left hand the cutter holds a chisel, short and rather wider than the file to be cut. The cutting edge of this he places at a slight angle with the blank's length, holding the chisel itself at a definite angle away from the vertical. A single blow from a peculiar hammer with a head that curls over the handle on one side only, throws up a ridge of steel in front of the tool. The edge is immediately readjusted, its position being found by feeling that it lies against the ridge just formed. Sixty or eighty of these ridges are made per minute, till the whole length of the blank is traversed. Then a second series are cut at a slight angle with the first, a little closer together, and, consequently, a little shallower. The file is then turned over for the other side to be operated on.

A BANK FOR EMPLOYEES.

The bank started two years ago by The Carnegie Steel Company, with the object of encouraging their employes to save their money, has achieved a decided success. More than \$1,000,000 is now held by it in trust for the company's employes. Only persons on the pay-rolls of the corporation are permitted to deposit their money, and for this reason the bank has met with no opposition from the local banking institutions. No one is permitted to deposit more than \$2,000, and 6 per cent interest is paid on all the money thus deposited. Depositors can withdraw their money by giving 10 days' notice. The bank also makes provisions to loan money to employes who wish to build their homes, and many houses have been built in this manner at Homestead, Braddock and Duquesne. The bank is located in the Carnegie Building, Pittsburgh, and branch offices are maintained at all of the Carnegie Company's works. The system has proved so popular that comparatively few of the company's employes are unrepresented on the bank's books. Many depositors, when reaching the \$2,000 limit, withdraw their money, invest it, and begin again. Others keep their deposit account close to the figure named.—Metal Worker.

PERSONAL MENTION.

Mr. W. H. Evans, of The Canada Paint Company, Limited, Bay street, Toronto, has been elected a life member of the Toronto St. George's Society. **HARDWARE AND METAL** has always understood that Mr. Evans' crest was an elephant rampant. He may now be expected to change it to the dragon of St. George on the warpath.

Mr. Valentine Stock, general merchant, Tavistock, Ont., was nominated as Liberal candidate for South Perth, Ont., at the convention of the party in that riding on Tuesday.

SMALL ELECTRIC MOTOR USES.

THOSE who have the management of public electricity supply undertakings know full well the value of the electric motor as a factor in the reduction of the working costs.

But there are other probably greater effects which the electric motor will produce with its more complete adoption in the near future—the writer refers to the beneficial effect upon the trade and productions of the country, and the hygienic and social effect on the community generally. In the first of these aspects, it is possible to foresee the revival once more of a number of small and independent industries, such as existed, but under different conditions, in former years. The possibilities are already being grasped by the artisan in France, Germany, Switzerland and the United States. By the aid of the electric motor he begins to find that he can at least hold his own in competing with immense manufacturing concerns and combinations; he has a practically unlimited available power at his own door—which is a great boon to the artisan, and one which offers him an inducement to become his own master.

In a very small and limited degree the gas engine has already accomplished something in this direction, but its many imperfections, its cost, and the fact that it has never been available on the hire system, have kept it more or less in the background. The effect of hiring-out electric motors is thus mutually advantageous, and its natural tendency is to create fresh demands, in fact, the municipality which includes this scheme in its electric light undertaking offers a great inducement to the influx and establishment of new industries within its area.

With a more complete return to a multiplicity of industrial operations, there may also revive some neglected trade. From an hygienic point of view, the electric motor is far and away the best; it is cleanly in its working, gives off no deleterious gases and displaces the boiler and smoky chimney. One of the ultimate results must also be the raising of the status of the working part of the community. By becoming his own master the artisan gains self-respect, becomes more resourceful and therefore a more important member of society; and the more intelligent interest which he will display in his business must appreciably affect the general welfare of the country.—Cassier's Magazine.

VARNISH FIRMS COMBINE.

The Scientific Varnish Manufacturing Co., Toronto, have sold out to the Nonsuch Manufacturing Co., Limited, Toronto. Mr. Ed. Hawes, manager of the Scientific Varnish Manufacturing Co., will be the representative of the united firms in Toronto.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

SISSONS BROS. & CO. of Montreal LIMITED

Manufacturers

Pure English Varnishes
Mixed Paints
Colors in Oil
Dry Colors, etc.

Proprietors and Manufacturers
 "HALL'S PATENT"

Washable
Water
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A paint thinned with water—that covers more, stands better and goes further than oil paint.

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 Canadian Manager.

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Factory, Canal Bank,

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ELECTRICAL MACHINE TOOLS.

To hold down to a lecture platform a light iron object by means of an electro-magnet underneath, out of sight, and thus appear to multiply its weight many times over at will—to make it impossible even to lift the object in question, providing the magnet be powerful enough—is an old conjurer's trick, which has served on many occasions to mystify the public. Its principle, however, has been applied to several more useful purposes, and one of these, of recent date, is embodied in a magnetic chuck for miscellaneous work, for surface principally, but adapted also for the planer or the lathe. The magnetic effect in this chuck is produced by an electric current circulating in a coil in the interior of the device, and, as this coil is wound, preferably for 110 volts, the needed current can be taken from any regular electric lighting main in or about the shop. The convenience of the device, especially for small work, is so obvious that it need not be emphasized.

A magnetic holder for an electric incandescent lamp is another electric shop convenience which, no doubt, will be quick to commend itself. The holder is simply a lamp socket containing a small electro-magnet, which will make the whole contrivance stick to any piece of iron or steel with which it may be brought into contact. The coil through which the magnet is energized is within the base of the holder, and the lamp current supplying the energy passes through it on its way to the lamp. In machine and boiler shops, in engine and boiler-rooms aboard ship; in fact, wherever light is needed for machine work, the contrivance ought to prove a convenience of the first order.—Cassier's Magazine.

OTTAWA VALLEY LUMBER CUT.

A statement of the lumber cut of the firms in the Ottawa district last season, according to The Mail and Empire's correspondent, shows that the output reached a total of nearly 600,000,000 feet. On the Parry Sound railway, the Gilmours, at Canoe lake, cut 40,000,000 feet, while the St. Anthony Lumber Company, at Whitney, cut 45,000,000 feet. The following is a statement of the cut of the Ottawa valley firms:

	Feet.
Pembroke Lumber Co.....	17,000,000
A. and P. White, Pembroke.....	15,000,000
Gillies Brothers.....	25,000,000
McLaughlin Brothers.....	65,000,000
J. R. Booth.....	118,000,000
Bronsons & Weston.....	12,000,000
Hull Lumber Co.....	53,000,000
Gilmour & Hughson.....	35,000,000
W. C. Edwards & Co., Rockland.....	60,000,000
W. C. Edwards & Co. New Edinburgh	15,000,000
Hawkesbury Lumber Co.....	52,000,000
A. Fraser, Dechene.....	7,000,000
Ross Bros., Buckingham.....	10,000,000
McLaren & McLaurin.....	7,000,000
McLaren Bros.....	15,000,000
or a total for the Ottawa valley of	508,000,000 feet.

Warnock's



Axes, Edge Tools and Lumbering Tools are superior to anything else made or used in Canada. Always buy "Warnock's."

James Warnock & Co., - Galt, Ont.

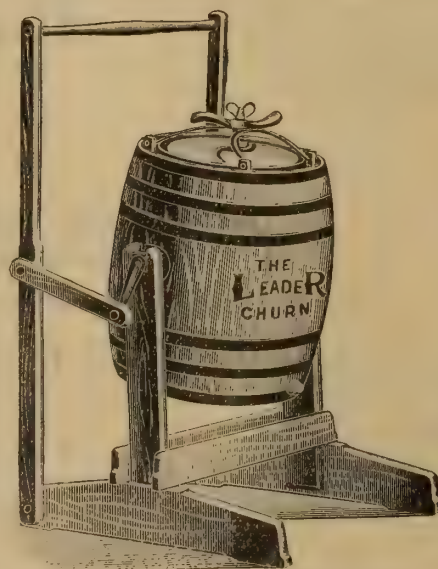
The "True Brand" Cutlery may not be any better than other equally high-class goods, but price and quality compared, **Ours is the most profitable.**

E. F. WALTER & CO. - MONTREAL.

Coppered Steel Spring Wire

Standard for furniture springs, high-grade, fully guaranteed for special purposes.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.



This is our 1898 Roller Bearing Stand, with Double Lever Attachment.

THE LEADER CHURN.

(TWO STYLES.)

1898 Stand, with lever attachment.
1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.
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**TIRE UPSETTERS
 WILL UPSET TIRES**

Some machines sold as Upsetters will not.
 Perhaps you make as much money on the
 sale of a useless Upsetter as on a good
 one, but your customer does not. He
 don't want a machine because it is called
 an Upsetter; he wants a machine to upset
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IT PAYS TO SELL THE BEST TOOLS

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Factory at
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B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
 being much stronger and neater.

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Tinnners' Hardware and Roofers' Supplies,

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is made in three calibres

22, 25 and 32 Rim Fire

and is the best low-priced rifle made. Highest quality of work.
 Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
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**Saves
 2 costs**

Will that customer thank you and come again? Will
 he do all this if you save him "two costs"? We think
 he will.

Church's Alabastine is the only permanent and perfectly sanitary
 Water-Color Wall Coating made. It
 won't decay on the wall—won't rub off
 or peel. Anyone can apply it. 16
 beautiful tints and white.

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 Netted Hammocks, white and colored, Tennis and Fly Nets.
 Skipping Ropes, Jute, Hemp and Flax Twines.

HEATING AND PLUMBING

MASTER PLUMBERS AND JOURNEYMEN DANCE.

THE members of the Plumbers', Gas, and Steamfitters' Union, of Toronto, held their annual "At Home" on the evening of January 27, at Webb's Parlors, Yonge street, and a most enjoyable time was spent by all present. The early part of the evening was spent in enjoying a well rendered programme of vocal and instrumental music and recitations. One recitation, which is most worthy of special notice, was rendered by Master Norman Millar, who is an electionist of rare ability for his years. His piece was entitled the "Plumbers' Ball," and was much enjoyed. At 11 o'clock the concert programme was finished, and, as supper was then ready, over 100 couples repaired to the spacious dining-room, where a sumptuous repast was served.

After supper, toasts were proposed, and responded to in good style. The first toast to "The Queen" was responded to in the usual way. The next toast was to "The Master Plumbers," which was responded to by Mr. J. B. Fitzsimons, president of The Master Plumbers' Association, who assured the union men that the masters held them in great respect, and had very kindly feelings towards them. He was glad to see that they were provided with such a fine class of helpers (the ladies). The next toast was "Our Ladies," which was responded to by Mr. Harry Fitzsimons, recording secretary of Local 46, and the ladies were well satisfied with his effort. The next toast was proposed by Mr. James Morrison, Toronto's biggest brass manufacturer, which was responded to by the president of the union, Mr. Frank Maxwell, who in an eloquent speech set forth the good qualities of the journeymen plumbers and the advantages of belonging to the union.

After which, the guests repaired to the dancing hall and card-rooms, where the rest of the evening was spent by both master and man. It was a pleasing sight to see how heartily the members of The Master Plumbers' Association entered into the pleasures of the evening. Among the master plumbers present were the president, Mr. J. B. Fitzsimons; Mr. A. Purdy, jr., Mr. W. Erwood, W. J. McGuire, Bates & Robinson, Mr. James Sherlock, Mr. Jas. Alcock and Messrs. Clark and Clapperton, of the Bennett & Wright Co., Limited, and Mr. Robt. Patterson, who represented the firm of Patterson & Co., Toronto Junction.

The following were the stewards: Messrs.

Chas. Doughty, chairman; T. McCann, secretary; J. Reeves, treasurer; A. Robinson, A. Nicholson, J. Culliton, A. Pellow, A. Dines, F. Maxwell, A. McClellan, C. Hicks, W. Millar, B. Sherlock, J. Murphy, R. Long, R. Harrison, J. Woods, J. Sheridan, George McDonald, T. and J. Worthington.

The music was supplied by Prof. Harrison's orchestra, and at 3.30 a.m. all repaired to their homes thoroughly satisfied that they had a good time.

POWER SCHEME IN ORILLIA, ONT.

ON Monday the ratepayers of Orillia, Ont., by a vote of 399 to 61, decided to raise \$75,000 for the installation of an electrical power transmission plant, to be owned and managed by the corporation.

It is the intention to develop 800 horse-power at the Ragged Rapids on the Severn river situated in the township of Matchedash, 19 miles overland from Orillia. This is said to be an ideal water-power with a natural head of 34 feet, easily developed, and having a capacity of between 2,000 and 3,000 horse-power at low water. Of the 800 horse-power developed, 350 will be utilized to run the electric lighting and waterworks plants, owned by the corporation, while about 250 more will be used by industries at present located in the town. With the remainder, the council will endeavor to induce manufacturers to locate there by offering power at exceptionally low rates. The schedule of power rates charged will be lower than the Niagara charges, and are said to be the lowest in America. They range from \$27 per horse-power for small takers to \$13.50 per annum for 30 horse-power and over, for a 24-hour service. There will also be an exceedingly low tariff of light rates, as a reduction of from 20 to 40 per cent. will come into force as soon as the plant is installed.

The tenders for the installation of the

plant have been awarded to The Central Construction Co., of Buffalo, who tendered to put in the whole plant, electrical and hydraulical, for \$67,200. Various extras will bring the price up to \$73,800. All the machinery will be of the latest and most approved pattern. The dam is to be of stone masonry, the flume of steel, and every other part of a like substantial nature, with a view to having the plant outlast the term of the debentures, which is 30 years. The power will be transmitted at a pressure of 20,000 volts, and used at 1,000 volts. None of it will be transmitted to direct current, but the town will supply alternating motors and charge a rental for it.

The town of Orillia was the first municipality to apply to the Ontario Government for the right to develop water-power under the recent legislation. It was granted leave to develop 800 horse-power at an annual rental of \$100, and to take what more was wanted at 12½c. per horse-power. Orillia will also be the first municipal corporation on the continent to go into the power business.

PLUMBING AND HEATING NOTES.

The premises of J. Brunet & Co., plumbers, Montreal, were slightly damaged by fire one day last week.

P. C. Ogilvie, Montreal, has admitted his brother, S. Ogilvie, to partnership, and the firm will now be Ogilvie Bros.

The annual banquet of the Plumbers and Steamfitters' Association, of Montreal, takes place on Monday evening, 13th inst., at Balmoral Castle hotel.

Arthur Morin was arrested in St. Johns, Que., the other day, for stealing about \$200 worth of plumbing tools, which he appropriated from Zeno Tellier, Montreal, and sold to second-hand dealers. He pleaded guilty, and was remanded.

PLUMBING AND HEATING CONTRACTS.

Tenders are being asked for for plumbing and heating the church, St. Louis De Mile End.

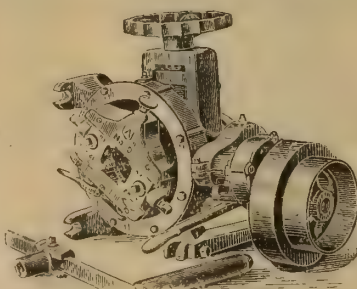
Tenders for plumbing and heating have been asked for for the new La Presse building, Montreal.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

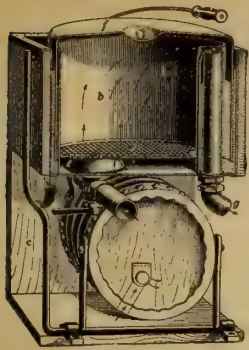
Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

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New York Office: 139 Centre Street
Bridgeport, Conn.



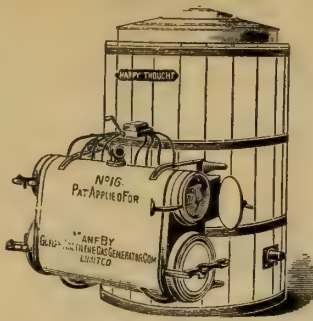
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with the simplest and
most reliable Smoke
Test.

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ACETYLENE GAS

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Does not gather odors
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Oil-tempered blades,

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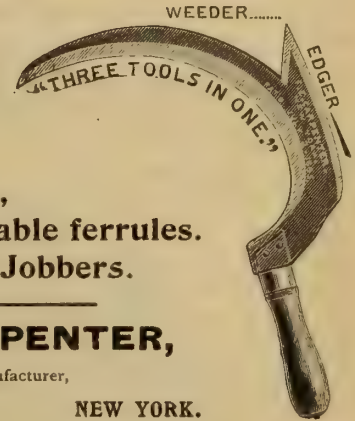
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Steam Traps, Separators
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Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

PREFERS PEPPERMINT TO SMOKE TEST.

"NOTICE in The Metal Worker," says a correspondent of that paper, "that a preference is being shown for smoke test over the oil of peppermint test, for detecting defects in plumbing. Having had considerable experience with both the smoke machine and the peppermint test, I have, in several instances, discovered that the oil of peppermint test is more reliable, if properly and carefully made, than the smoke test. As an instance, when the leak in an old drain is below the floor, and, possibly, 12 or 18 inches below ground, I have found that when the smoke test failed to show the leaks, the peppermint test did, and, in one case it showed a leak in an old cement drain, directly under a hot air furnace that had been put in an old house and placed over the drain. The drain being 12 inches below the ground, the smoke test would not show any leakage, but, when the peppermint test was applied, I could notice the scent of it through the opening where the water pan entered the furnace, and, after a few minutes, it had ascended to every room in the house. On other tests made with the smoke machine, I found that when the oil of peppermint test was afterward applied it would show slight leaks that the smoke test had not brought to notice. The smoke machine that I have used is similar to the different American machines in popular use, and I used charcoal, tar paper or tobacco paper and a little sulphur. I stopped all openings from which smoke had emitted, and operated the machine for several minutes until it showed that the required pressure had been attained, and in one instance I had the machine operated until the seal of a watercloset trap showed the movements of the pump, and it failed to reveal cracked joint on a 2-inch brass ferrule. To satisfy myself I made a test with 4 ounces of oil of peppermint and 6 quarts of boiling-hot water, which showed the leak in the cracked joint. Leaks of this nature will always show better if the system is tested with oil of peppermint than with smoke, provided that the leaks are being looked for by a man possessed of a good smell, especially leaks in drains that are 12 inches or more below ground. The smoke test is good enough where the leaks are large enough. I have given this account of my experience with the hope that others may give their views

from experience on the relative merits of the smoke and peppermint tests."

A REMARKABLE FORGING.

Some interesting facts, says an exchange, are mentioned in respect to the forgings for a new engine intended for The Boston Elevated Railroad Company, to be made by The Bethlehem Iron Company, at South Bethlehem, Pa. The shaft for the engine is to have a measurement of 27 feet and 10 inches in length and 37 inches in diameter. It will be hollow forged, having a hole 17½ inches in diameter, and the shaft, when completed, together with cranks and fly-wheel hub, will weigh upwards of 150,000 lb. In certain respects, it would appear that this is to be a remarkable forging, the specifications calling, among other details of construction, for the highest grade of fluid-compressed nickel steel, annealed and oil-tempered, the material also to show an elastic limit of 50,000 lb. per square inch, and an elongation of 18 per cent. in test pieces one inch in diameter and 10 inches long. The definite dimensions are stated to be: Diameter of fly-wheel fit, 37 inches; diameter of journals, 34 inches; diameter of crank-web fit, 32 inches; diameter of axial hole, 17½ inches; length over all, 27 feet and 10 inches. The estimated weight is 63,000 lb.

NEW INVENTIONS.

Below will be found the report of patents recently granted to Canadian inventors by the Canadian Government. This report is prepared especially for this paper by Marion & Marion, solicitors of patents and experts, New York Life Building, Montreal: Nos. 62439, John Ricketts and Michael Riley, Peterborough, Ont., locks; 62440, Wm. James Walsh, Hamilton, Ont., telephone address annunciator; 62446, Neil McDougald and Thomas Longhead, Allenford, Ont., cattle feed heaters; 62463, Geo. D. Pearson, Montreal, Que., acetylene gas lamp; 62481, John Hayden, Brantford, Ont., new method of securing a crank to its axle; 62401, Daniel Wilhelm, New Hamburg, Ont., washing machine; 62403, Harry Mitchell, Neepawa, Man., sawhorses; 62410, Jas. Hardill, Stratford, Ont., steam engine; 62362, Wm. McCloskey, Essex, Ont., machine for making fences; 62383, Alfred Rowley Hayland and John Hamilton, Kaslo, B.C., mineral lode tracers.

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The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
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All goods stamped T. F. Co. are warranted.

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Collects accounts anywhere. Fees for current accounts 10 per cent. of amount collected. No fee less than \$1. Prompt returns. Report to you monthly. References given. Try us.

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We are the largest manufacturers of
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HAMILTON STAMP AND STENCIL WORKS

Send for Quotations

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Manufacturers of

All sizes of Hot Pressed
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SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

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John Morrow Machine Screw Co.

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Have you **"True Brand"** in Stock?

If your Jobber does not keep it write us direct and we will send you Samples.

The **"True Brand"** is the best line of Cutlery on the market.

Our Trade Mark on every piece guarantees the quality.

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Binder Twine.



This Brand is a guarantee of the Best
Binder Twine made.

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JOHN BOWMAN HARDWARE AND COAL CO.

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S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges, pistol sizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B. B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in ½ lb. bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 25
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Anvils.
 Per lb. 0 10 0 12½
 Anvil and Vice combined, 4 50
 each, 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

AXES.
 Millar's Falls, per doz., 2 80 3 30
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, " 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list.
 Boxing extra

Anti-Friction Metal.
 "Tandem" A., per lb., 0 19
 "B.", " 0 16
 "C.", " 0 10½
 "M. Arch" 1., " 0 21
 "2.", " 0 15
 "3.", " 0 10
 "Canadian", " 0 08½
 Magolia Anti-Friction Metal, per lb., 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, 5 50 8 00
 "Peterboro", discount 50 per cent.
 Cow.
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.
 American, each, 1 25 3 00

House.
 American, per lb., 0 35 0 40

Bellows.
 Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Beltting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.
 Auger.
 Gilmour's, discount 65 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 "Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.
 Gilmour's, 47½ to 50 per cent.
Expansive
 Clark's 40 per cent.
 Excelsior, 10 per cent.

Gimlet.
 Clark's, per doz., 0 65 0 90
 Mascott, " 1 35 1 85
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Annex, per doz., 1 25 1 75
 " 1 35 1 85
 Erminie, " 1 00 0 90

Blind and Bed Staples.
 All sizes, per lb., 7½ 0 12

Bolts.
 Carriage, 5-16 and under, dis., 70 per cent.
 "¾ and larger, dis., 60 and 10 per cent.
 Tire, dis., 70 and 5 per cent.
 Stove, dis., 70 per cent.
 Elevator, dis., 45 to 40 per cent.
 Machine, 5-16 and under, dis., 70 p.c.
 "¾ and larger, dis., 65 and 10 p.c.
 Coach Screws, dis. 75 and 10 p.c.
 Plough bolts, 60 p.c.

Boot Calks.
 Small and medium, per M., 4 50
 Small heel, per M., 4 25

Broilers.
 Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City, " 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Butts.
 Brass.
 Wrought Brass, dis., 17½ p.c. revised list.
 Cast Iron
 Loose Pin, dis. 70 per cent.
 Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Cards.
 Horse pe doz., 0 60 1 00

Carpet Stretchers.
 American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

Carpet Sweepers.
 Bissell, per doz., 22 50
 World, " 21 75
 Dairy, " 24 00
 Star, " 18 00
 Crown Jewel, per doz., 29 00
 Grand Rapids, " 24 00 33 00

Cartridges.

(See Ammunition.)

Castors.

Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.

Nos 31 and 32, per gross, 8 50 9 50

Cement.

Canadian, Portland, 2 50
 English, " 2 85
 Belgium, " 2 75
 Canadian hydraulic, 1 20
 Figures are for barrel lots.

Chalk.

Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt., 0 60 0 65
 Red, " 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.

Socket, Framing and Firmer.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 40 and 5 per cent.

Churns.

Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock, Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.

Axle dis. 65 per cent.
Closets.
 Washout, plain, 3 25
 "embossed, 3 50

Compasses, Dividers, Etc.

American, dis. 62½ to 65 per cent.

Cradles, Grain.

Canadian, dis. 20 per cent.

Dies.

Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 5 per cent.

Door Springs.

Torrey's Rod, per doz., (15 p.c.), 2 00
 Coil, per doz., 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.

Broad's, dis. 75 per cent.
 Warnock's, dis. 25 per cent.

Drills.

Hand and Breast
 Millar Falls, per doz. net list.

DRILL BIT.

Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.

Stovepipe.
 Per doz., 85 1 70

FILES.

Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.
 Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27½ per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.

Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS

Ice Cream.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.

Henis, per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.

Acme, dis. 65 to 67½ per cent.

GAUGES.

Marking, Mortise, Etc.

Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.

Window.

Box Price.

Size United Inches.	Per 50 ft.	Per 100 ft.	Per 100 ft. Double Diamond
Under 25	1 80	3 50	5 50
26 to 40	1 95	3 80	6 10
41 to 50		4 20	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.

Rope, ¾ per gross, 8 25 8 50
 "½, " 9 25 9 50
 "¼, " 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 00
 "1½ in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.

Nail

Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Tack.

Magnetic per doz., 1 10 20

Sledge.

Canadian, per lb., 0 07½ 8½

Ball Pean.

English and Can., per lb., 0 22 25

HANDLES.

Axe, per doz., net, 1 50 2 00
 Store door, per doz., 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Fork.

C. & B., dis. 45 per cent. rev. list.

Hoe.

C. & B., dis. 45 per cent. rev. list.

Saw.

American, per doz., 1 00 25

Plane.

American, per gross, 3 1

Hammer and Hatchet.

Canadian, 45 per cent.

Cross-Cut Saw.

Canadian, per pair, 0 13¾ 0 20

HANGERS.

Door, 4 and 5 inch, per pair, 0 40 50
 Lanes, 62½ per cent.

HATCHETS.

Canadian, dis. 40 to 42½ per cent.

HINGES.

Blind, Parker's, dis. 60 and 10 to 65 per cent.
 "Shepard's, dis. 60 per cent.
 "Buffalo, dis. 60 to 70 p.c.

Light T and strap, 70 per cent.

Heavy, per lb., 0 03¾ 0 04¾

Screw hook and hinge—

6 to 12 in., per 100 lbs., 3 15

14 in. up, per 100 lbs., 2 35

Per gro. pair

Spring, " 8 50

HOES.

Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.		
Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Hooks and Staples, Can., dis.
47½ per cent.

Wire.		
Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS		
"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.		
Iron Shoes.		
Toronto.		
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		
Light, all sizes.	3 45	
Extra light.	4 60	
Toe weight (steel).	5 60	
If shipped from factory, Montreal, 10c. per keg less.		

ICE PICKS.		
Star, per doz.	3 00	3 25

KETTLES.		
Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.		
Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock.		
Am. per gross.	1 60	

KNOBS.		
Door, japanned and N.P., per doz.	0 90	1
Bronze, Berlin, per doz.	2 75	35
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L. screw per gross	1 30	4 00

KNIVES.		
Clauss, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.		
Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass, "	1 20	1 30

LINES.		
Fish, per gross.	1 05	2 50
Chalk, "	1 90	7 40

LOCKS.		
Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		

English and Am., per doz.	50	6 30
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.		
Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 2½ p.c.		

MALLET.		
Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.		
Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.		
American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MOLASSES GATES.		
Stebbin's Patent, dis. per cent., 77½ per cent		

NAILS		
Quotations are:		
2d. and 3d.	\$2 75	\$3 00
3d.	2 40	2 65
4 and 5d.	2 15	2 40
6 and 7d.	2 05	2 30
8 and 9d.	1 90	2 15
10 and 12d.	1 85	2 10
16 and 20d.	1 81	2 05
31, 40, 50 and 60d. (base).	1 75	2 00
Steel Cut Nails 10c. extra.		
Brads and finishing nails, special sizes, p.c. from new list.		

NAIL PULLERS.		
German and American.	1 85	3 50
NAIL SETS.		
Square, round, and octagon, per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.		
Poultry, 55 per cent. for McMullen's.		

OIL.		
Canada refined oil (Toronto).	0 14	
Carbon safety "	0 16½	
American w. w. "	0 17½	
Pratt's Astral.	0 17	

OILERS.		
McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
truss,	1 50	3 50
Walleable, dis. 25 per cent.		

PAIS.		
Galvanized, per doz.	1 85	3 00

PICKS.		
Per doz.	6 00	9 00

PICTURE NAILS.		
Porcelain head, per gross.	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY		
Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½ to 4.	100 00	
No. 56 Hand Machine, range 2½ to 6.	175 00	

PLANES.		
Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.		
English, per doz.	2 00	5

PLIERS AND NIPPERS.		
Button's Genuine, per doz pairs, dis. 37½ to 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.		
S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		

PULLEYS.		
Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS.		
Canadian cistern	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.		
Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.		
Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.		
New Nicholson horse rasp, discount 60 p.c.		
Globe File Co's rasps 6½ and 10 to 70 p.c.		
Heller's Horse rasps, 5½ to 50 and 5 p.c.		

RAZORS.		
Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's "	7 00	12

RIVETS AND BURS.		
Carriage, Section, Wagon Box Rivets, etc. (Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and p.c.		
Copper Rivets & Burrs, 37½ p.c. dis.		
cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.		
Canadian, dis. 35 to 37½ per cent.		

ROPE, ETC.		
7-16 in. and larger, per lb.	Sisal.	Manila
¾ in.	9½	10½
½ and 5-16 in.	10½	11
Cotton	13	
Russia Deep Sea	14½	
Jute	6¾	7½
Lath Yarn	8¾	
New Zealand Rope	½	

RULES.		
Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.		
Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.		
Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.		
Per lb.	0 20	0 50

SASH WEIGHTS.		
Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.		
Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.	0 75	

SAW SETS.		
"Lincoln," per doz.	5 50	6 00

SCALES.		
Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 67 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances 25 p.c.		

SCREENS.		
Door, patent, per doz.	6 10	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS.		
Sargent's, per doz.	65	1 00

SCREWS.		
Wood, F. H., iron, and steel, dis. 85 & 5 p.c.		
Wood R. H., " dis. 77½ and 5 p.c.		
" F. H., brass, dis. 80 and 5 p.c.		
Wood, R. H., " dis. 72½ and 5 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.	3 25	4 00
iron, "	4 25	5 75

SCYTHES.		
Discount, per doz. net.	4 50	6 00

SCYTHE SNATHS.		
Canadian, dis. 50 p.c.		

SHEARS.		
Seymour's, dis. 60 p.c.		
Heinisch, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears. 15 p.c.		

SHOVELS AND SPADES.		
Canadian, dis. 40 and 10 per cent.		

SNAPS.		
Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.		
Per lb.	0 25	

WROUGHT SPIKES.		
Discount, 35 to 40 per cent.		

SQUARES.		
Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.		
Galvanized	2 50	
Bright	2 25	

STOCKS AND DIES.		
American dis. 25 p.c.		

STONE.		
Washita, per lb.	0 28	0 60
Hindustan, "	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador.	0 13	
" Axe, "	0 15	
Turkey	0 50	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	1 00
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.



No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case, "	7 50	

STEP LADDERS.		
BOECKH BROS. & COMPANY.		
Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS, BRADS ETC.		
Per cent.		
Strawberry box tacks, bulk.	75	
Cheese-box tacks, blued.	80 and 20	

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
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WORKS: 274 St. Patrick St., MONTREAL.

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Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

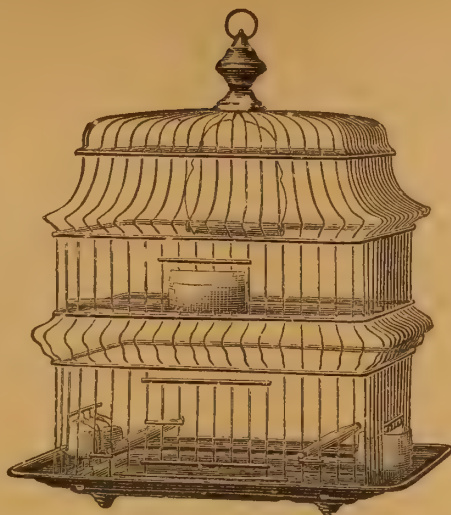
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Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

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PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting, double action, small frame. Weighs 12 oz. Rebounding lock. 32 caliber. 5 shot.

Made with shorter barrel for bicycle use.

The most perfect small pistol made.



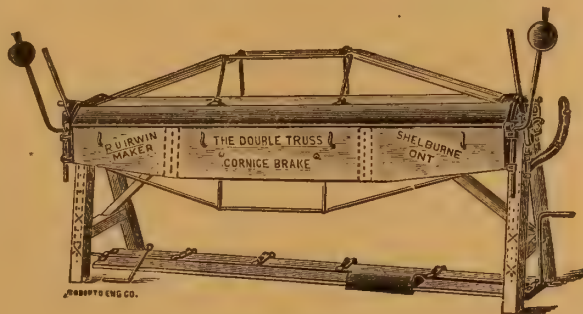
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Forehand Arms Co.

Manufacturers of
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This eight-foot Brake bends 22-gauge iron and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra, if required.

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Brake Co. SHELBURNE, ONT.

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you churn.

Made only by

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London, Ont.

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60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

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THE PAINT MAKERS

Canadian Hardware and Metal Merchant

Vol. XI.

TORONTO AND MONTREAL. FEBRUARY 18, 1899.

No. 7.

THE MACLEAN
PUBLISHING CO.
/ LTD.
MONTREAL
& TORONTO

McBURNY—BEATTIE

Bicycles

ARE FAVORITES
EVERYWHERE



Every new feature is a
genuine improvement.

Made in two models, and
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Catalogues Now Ready.

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THE
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In Swiftess, Symmetry and
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Seven Models, elegantly finished
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Bicycle

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— Toronto, Ont.

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Ladies' and Gent's, in Black
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\$25.00

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(High grade American wheel,
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\$40.00

HARTFORD & VIM TIRES. All in good order.

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Scientific Bearing Metal
Langwell's Babbitt
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CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, FEBRUARY 18, 1899.

NO. 7



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
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"Patented June 3, 1890"
are stamped on the under
side of each bar.



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Some makers charge an extra for this.



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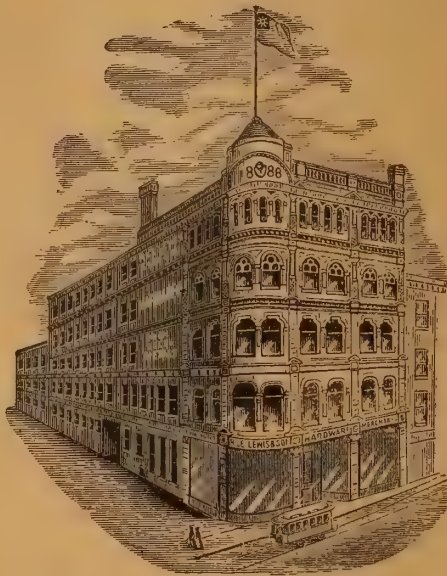
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Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

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Not connected with any Shear Combination.

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Their durability is assured beyond any question. Then, too, they are simple in construction and operation; have enormous heating capacity, and are most economical in the use of fuel. These are the points that are considered by the careful and discriminating buyer, and among such buyers our Heaters are known as "The Standard of Excellence."

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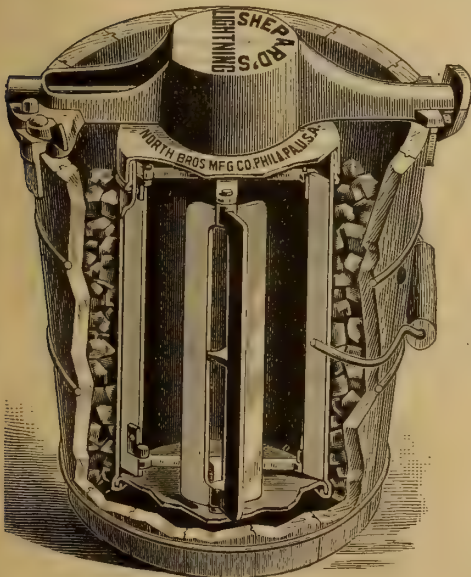


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Interior view of Freezer.



New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

White Cedar Pails

with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

Drawn Steel Bottom Cans

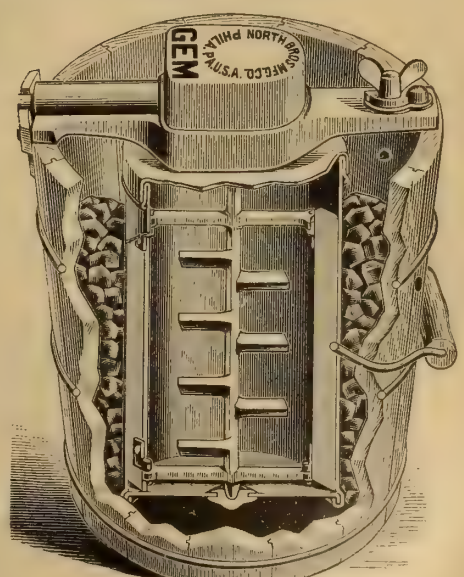
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Interior view of Freezer.



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Ground, Washed and Flour.

WHEELS of highest quality
for general and
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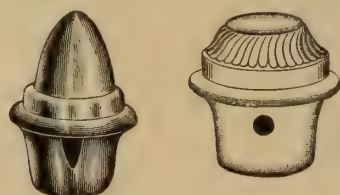


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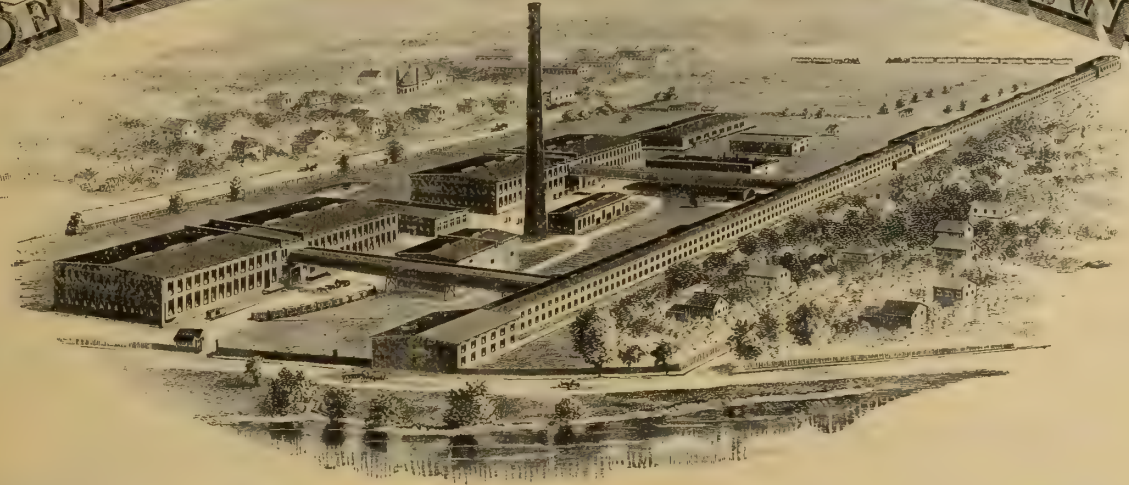
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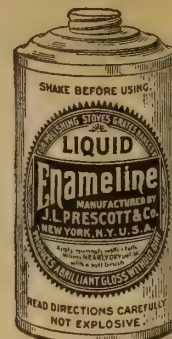
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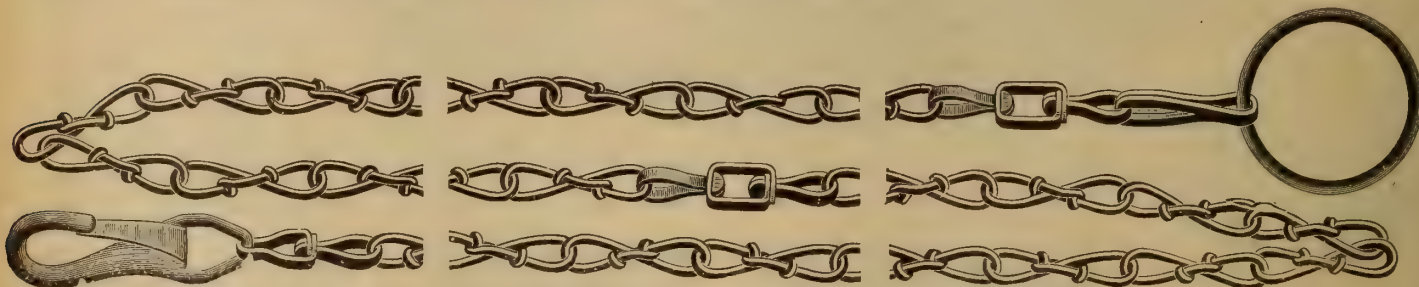
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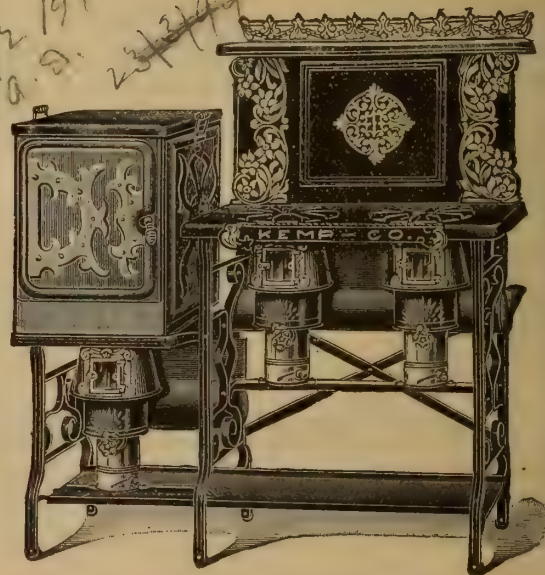
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Easy to trim and re-wick.
It is the only Stove made with Solid Drawn
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Have no Side Seams to leak, or
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They are supplied with Broad Tops.



KEMP MANUFACTURING CO. - Toronto, Can.

HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, FEBRUARY 18, 1899.

No. 7

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

BICYCLE EDUCATION NEEDED.

IT is in handling low-grade wheels that the hardware dealer has the keenest (and meanest) competition, for, generally speaking, the man who wants a cheap wheel, knows little or nothing of bicycle quality or values, and is more likely to be "taken in" by a tricky dealer than is the man who has ridden a year or two and now wants a good wheel, and is willing to pay a fair price for it.

The hardware dealer who handles wheels would make no mistake in keeping a few second-hand wheels to meet this demand, if the wheels he so sells are not more than a year or two old and were once first-class. A good wheel a year old is, generally speaking, much better than a new cheap one.

But it would be folly to handle second-hand, low-grade wheels, for most of these are not worth the trouble of keeping in repair.

Hardware dealers should try to educate the public against the folly of buying cheaply made wheels even at a low price, and, above all, against buying cheap wheels from strangers.

A story, told by a wholesale bicycle dealer this week, will illustrate how a man who knows little about wheels is likely to be beaten when he tries to get a wheel from a stranger or a tricky dealer below cost.

The dealer went into one of the bicycle liveries in Toronto to try to sell some of his cheapest wheels. He found the proprietor trying to sell a low-grade wheel to a young man. The young fellow did not seem to know very much about wheels, but he wanted a good one for about \$20. He liked the appearance of one shown him, but hesitated about buying. The liveryman stood the wheel against the wall, and, turning to the young fellow, said: "Now, there is the wheel. If you want it, I will give it to you for \$22 cash. My time is worth \$10 a day. I have been talking to you half an hour; therefore, you have taken up 50c. worth of my time."

The young man, after a little further hesitation, said: "I guess I'll take it," and paid \$22 for a wheel which was inferior to some the wholesale dealer knew were offered elsewhere for \$15. The tires were cheap ones, and were about done; the pedals were brazed ones; the wheel was, in fact, worn out.

As a rule, the bicycle liveries keep inferior grade wheels. They are rented to every

Tom, Dick, or Harry who wants them, even if he is learning to ride, until the liveryman has made a profit out of them. Then they are sold at prices much above their value, even though it looks small, compared with the price of a new wheel. Your customers should know this.

Business that is courted can usually be won.

SALESMEN FOR BICYCLES.

A BICYCLE business, like every other business, must be properly managed in order to be made successful.

The hardwareman who handles bicycles cannot expect them to sell themselves. They must be pushed, and there must be someone in connection with the business whose special duty is to push them.

In other words, there should be a clerk whose special duty is to look after this branch of the trade. And in order to do this it will not do to confine him altogether to the store, unless the business is large enough to allow an inside as well as an outside man to be employed.

Some one needs to be outside, in order that the surrounding villages may be canvassed and the bicycle meets visited.

There are many men who would not be riding a wheel to-day were it not for the fact that they had been called upon by a bicycle salesman, who had stirred up within them a desire to possess a wheel.

Where the business is small, an effort should be made to secure as a bicycle salesman a young man who is handy at repairing. Such a one would be a great help to the business.

INCREASING USE OF HIGH-GRADE WHEELS.

THE very low-grade bicycle was never popular, but during the ensuing season it promises to have fewer friends than ever.

Several causes have contributed to this. The chief one is doubtless the unsatisfactory experiences. There is nothing which so much annoys a rider as to be compelled to leave his wheel every once and a while at the repair shop. And if it was the common concomitant of bicycle riding, there would be few bicycles.

Very low-grade wheels do not, nor can they ever, give satisfaction. There is neither the proper material nor proper assembling to impart it.

Low-grade wheels have been tried and found wanting, and thus are riders and intending riders turning their attention to the better grades.

In the store of a bicycle dealer in Detroit, there is, or at any rate there was, a salesman who was minus his nasal organ. He had bought a very low-grade wheel, and one day when crossing a granite paved street railway track at a good rate of speed, the machine collapsed at the crown, and the rider was thrown forward on his face, his nose being scraped off by the granite blocks as it ploughed across them. He is now being used by the bicycle dealer by whom he is employed as a "horrible example" of the danger of riding low-grade bicycles. He doubtless serves his purpose well.

Another factor in inducing people to purchase the higher grades of wheels is the better trade conditions. Riders can afford better wheels than they could a few years ago.

Then, the fact is being more generally realized that a good wheel is after all the cheapest wheel.

The first cost of a wheel is not the determining factor as to its cheapness. It is quality that tells, not price. And he who buys a very low grade wheel is in nine cases out of ten practically certain to soon overtake, in the matter of total expenditure, he who at the start wisely purchased a good one, to say nothing of the days of wheeling lost while the machine was stalled in the repair shop.

Wheels, too, are now largely employed

for business purposes, and men and women who in this way use them cannot afford to be dependent upon the frailties of a poor bicycle.

But, while the high-grade wheels are increasing and the low-grade decreasing in popular favor, there are a great many people who still think that the low-grade article is good enough for their purposes, or who feel they cannot afford any other. It is, therefore, necessary for hardwaremen who handle bicycles—and all should do so—to be in a position to supply the wants of this latter class of bicyclists. In other words, they should not confine their stock to one grade of wheel. And, in fact, by having a low-grade wheel or two in stock, not only will they be able to supply the demand for such an article, but, what is more, the low-grade wheel can often be employed to help sell the higher-priced machine, the results from which are more satisfactory, in more ways than one, to the seller, as well as to the buyer.

REPAIRING SHOPS IN HARDWARE STORES.

Just as every hardwareman should handle bicycles, so every hardwareman should have a repair shop in connection with his business. In fact, he is handicapped in the transaction of his bicycle business unless he has.

A small repair shop, or bench, in the back of the shop, costs but little, but the results it is possible to produce therefrom are by no means small.

There is frequently repairing to be done, and, unless the dealer has the facilities for making at least those which are not extensive, he will find it next to impossible to do a good bicycle business.

SWEDISH IRON ADVANCING.

The fact has been developed this week in Montreal that the stock of Swedish iron is very light, and that values are bound to advance, as buyers who refused to believe in a rise have now been compelled to pay more money. Accordingly, they are asking more money, no Swedish iron being obtainable in Montreal under \$3.25 for ordinary quantities.

Buyers who refused to consider previous offers tried to place orders at the same figure

within the past day or so, but were informed that the price named was no longer available.

REMEDY FOR TRADING STAMPS.

RECOURSE to the Legislature against the trading stamp companies is being taken by some of the States in the American Union, and in Canada there is a disposition to imitate.

Unsound in business principles the trading stamp scheme undoubtedly is. Anything which encourages people to expect something for nothing is bad; and this is what the trading stamp and other similar schemes do if they do anything.

Then, the retail merchant not only acts as salesman for the goods of the promoters of such schemes, but, what is more, he pays for them.

We have thus the unique spectacle of a salesman paying for the privilege of selling goods instead of he himself being paid for doing so.

What a splendid thing it would be if the retailers could induce their clerks and wholesalers their travelers to work upon the same principle!

It is just a question, however, as to whether Legislative interference is possible. If our memory serves us right, in one or more States of the American Union, legislation of this character has been declared unconstitutional. At any rate it is doubtful whether the Legislature could be induced to enact such a measure.

What is wanted more than legal interference is a determination on the part of merchants to have nothing to do with trading stamps, street car coupons, or other similar devices for ensnaring the retail merchant.

Let two or three merchants in a locality agree in the matter and others will soon follow. There is a general dissatisfaction with the system, and it only requires a few determined, strong-willed men to lead to induce a stampede.

To resort to law is an admission on the part of merchants that they do not possess the necessary will power to keep from doing that which they know they should not do, and that therefore they must appeal to the Legislature to have laws enacted which shall prevent their being tempted.

UNION OF CANADA AND NEWFOUNDLAND AS A BUSINESS PROPOSITION.

THE question of the union of the Dominion of Canada and Newfoundland is again being mooted. Since the question was last seriously considered, four years ago, it has been in a comatose condition. It can scarcely, however, be a dead one until at least one of two things take place, namely, the consummation of the political union with Canada—or annexation to the United States. To continue as it is at present, cut off politically from the rest of the Dominion, is unnatural. The latter alternative, however, is one to which Canada could not consent.

The obstacle which caused the negotiations of 1895 to fail was chiefly, if not altogether, the difference of opinion between the Commissioners representing the two countries in regard to the amount of the debt of Newfoundland which the Dominion of Canada should assume. This difference in the amount was \$5,000,000, the Dominion being willing to assume \$10,000,000, while the Newfoundlanders stood for \$15,000,000.

Fifteen million dollars for an island which was at that time in an unhealthy condition financially, to say nothing of the perplexing French shore fishing question unsolved seemed exorbitant. For territorial aggrandizement, too, it was a high price to pay.

But judged from a purely business standpoint it did not appear to THE CANADIAN GROCER then, nor does it now, as an exorbitant sum.

Newfoundland is not a dreary island which has been blown into the mouth of the St. Lawrence by boisterous Atlantic waves, with a fringe of fishing huts around its coast.

Newfoundland is rich in minerals and rich in lumber, to say nothing of the richness of its fisheries. Its iron ores promise to become as famous as those of the Mesaba range of Lake Superior. Then, as a transfer station between the American and European continents, the island seems destined to become of considerable importance.

The import trade aggregates about \$7,000,000 annually, and its exports are not far below that figure. The flour imports of the island are getting on to \$1,500,000, of which Canada does not contribute one-third.

The figures for the last fiscal year are not

yet to be had, but during the last five years Canada's trade with Newfoundland has been steadily declining in exports and imports.

In 1897 the exports to Newfoundland were \$1,692,798. In 1893 they were \$2,594,633, and in 1894, \$2,818,592. The imports from Newfoundland were \$459,906 in 1897, while in 1894 they reached nearly \$900,000.

But, with the two countries one and no tariff walls to interfere, there would undoubtedly be an expansion, and a material one at that, in the trade between Newfoundland and the Dominion.

The interest on \$15,000,000, supposing that to be the amount of the public debt which Canada assumed, would be less than \$500,000. This, the value of the flour alone exported to Newfoundland would pay.

Last year the value of the flour exported was \$440,197, but that was an exceptionally light amount. In 1894 nearly \$1,000,000 worth of flour was shipped to the island from Canada.

Of course, the interest on the debt is not the only item of expenditure the Dominion would necessarily incur on coming into possession of Newfoundland. There would be the salary of the governor and other officials. But that is not sufficient to prevent the acquisition of Newfoundland being undertaken as a sound proposition.

BRITISH BLACK SHEETS HIGHER.

Prices on British black sheets for importation point higher. One importer who asked for a quotation on Friday last had this made perfectly clear.

In reply to his cable, makers answered quoting a rise of 7s. 6d. on previous quotations, and qualifying their offer by stating that it only held good for three days.

They declined, on Wednesday, to consider the offer on the same terms, asking a further rise of 6d., making the aggregate change 8s.

The mills in England are rushed with orders, and commission men look for continued firmness.

AXE PRICES WITHDRAWN.

Hardware jobbers have been notified by United States makers of the withdrawal of

quotations on all sorts of axes. It is pointed out that, with the cost of soft steel up about 20 per cent., grindstones about 35 per cent., crucible steel 10 per cent., borax 50 per cent., handles over 10 per cent., and all other material and labor entering into the cost of the axes advancing proportionally, with the prospect of still further advances, buyers will concede that there are good grounds for an advance in values on axes, which have been low in comparison with other goods.

As a result of these conditions, makers announce their intention of asking higher values for all new contracts.

WIRE NAILS HIGHER.

Manufacturers of wire nails in the United States last week advanced prices 15c. per keg.

This has naturally imparted increased strength to the market in Canada. In Toronto, \$2.10 to \$2.15 represents the price to retailers, and in Montreal the figures have been marked up to \$1.95 per keg.

The price for wire nails f.o.b. Pittsburg and Cleveland is now \$1.65 in carload lots. This, with the Canadian duty added, means \$2.25 per keg.

It is confidently expected that prices will appreciate still further, and retail hardwaremen should keep their stock of wire nails well assorted.

Stick to business, but do not allow it to stick to you after business hours.

TURPENTINE HAS ADVANCED.

An advance this week of 3c. in Montreal and 2c. in Toronto, brings the price at these points to 68 and 67c. respectively. The price at outside Ontario points is 1c. higher than this.

The reason for this advance is the firm feeling and stiffening prices in the south. The stocks held there have all this year been much below those of previous years, and the recent unusually severe weather in the turpentine district has materially restricted box cutting. Therefore, as the end of the season proscribed by law is not far off, a shortage in this season's crop will likely follow. This is naturally causing a decidedly firm feeling.

The British market is also strong, recent London cables announcing the market there as stiff at an advance of 3d.

LEGAL DECISIONS OF TRADE INTEREST.

(Reported by Peers Davidson, Esq., of the Montreal Bar, for
MacLean's Trade Journals.)

AT its last session, the Court of Appeals at Montreal rendered judgment in the now celebrated case of Mr. T. E. Vasey against The Montreal Gas Company, which has been pending in the courts since 1892.

On December 15, 1886, these parties entered into a contract by which the company agreed to deliver to Mr. Vasey all the ammoniacal liquor manufactured at the company's works, in Griffintown and at Hochelaga, and also the company's spent oxide of iron, for the purpose of enabling him to manufacture sulphate of ammonia. The contract was made for a term of five years from May 1, 1887. Mr. Vasey, during the negotiations, asked that the contract should be for a term of ten years, and subsequently reduced his proposal to seven years. The company refused to make the contract for more than five years, but on December 20, 1896, the president of the company wrote on its behalf to Mr. Vasey the following letter :

"Referring to the contract made with you on the 15th inst, for the sale of ammoniacal liquor, I may say that if we are satisfied with you as a customer, we would favorably consider an application from you at the expiration of the term for the renewal of the same, for another period."

On May 1, 1887, Mr. Vasey entered upon his work under the contract, during the continuance of which he had a considerable amount of trouble with the company in reference to the strength of the liquor they furnished, and other details. On the expiry of the five years, namely, on May 1, 1892, the company refused to renew the contract. Mr. Vasey sued for \$32,280 damages, partially for failure of the company to comply with all the terms of the contract, in reference to the strength of the liquor, and so on, and partly for \$20,000 damages, which he alleged to have been caused to him by the company's refusal to renew the contract. The former grounds of damages are technical and scientific questions, and have no great interest for the purposes of this report. The main interest of the case for outsiders is in connection with the interpretation of the letter of the president of The Montreal Gas Company, above quoted.

Mr. Justice Matthew, in the Superior Court, held that Mr. Vasey was a satisfactory customer, that the company was bound to renew the contract, and condemned it to pay Mr. Vasey \$10,000 damages for its failure to do so. The majority of the Court of Appeals, the Honorable the Chief Justice

dissenting, confirmed this judgment, and the various opinions delivered as to the real meaning and intent of the company's letter are most interesting. Mr. Justice Wurtele, in delivering the judgment of the Court, said :

"Mr. Vasey asked for a contract for a term of 10 years, and then reduced his proposal to a term at least of seven years. The company, however, on December 15, 1887, signed a specific contract for five years, but, on December 20, gave Mr. Vasey the letter by which it stated that if it was satisfied with him as a customer it would favorably consider an application for a renewal of his contract for another period. We have to apply to this letter the ordinary rules of interpretation, and, under Art. 1014 C.C., it must be held that the letter was intended to have some effect, and certainly the effect to be given would be a renewal of the contract for a period of two years, which was the term which was mentioned during the negotiations between the parties for the contract, provided the company was satisfied with Mr. Vasey as a customer. There must have been some object in giving this letter, and that object could only be a renewal of the contract. From its very terms, the parties could not have any other object or intention in view. We have now to consider if the company could contend that it was not satisfied with Mr. Vasey as a customer, and, therefore, that it was not bound to renew his contract. Sometime before the expiry of the term of five years, the company advertised for tenders for the sale of the ammoniacal liquor which it produced, and it requested Mr. Vasey to make a tender, and even prolonged the term for the production of tenders in order to allow him to amend the tender which he had made. Now, if the company had not been satisfied with Mr. Vasey as a customer, it certainly would not have requested him to make a tender for the purchase of its ammoniacal liquor. If it had been dissatisfied with him, instead of asking for a tender from him, it would have declined to accept any unsolicited tender which he might have made. This circumstance clearly shows that the company was satisfied with Mr. Vasey's conduct during the time he held the contract for five years, and it cannot, therefore, now pretend that it was not obliged to renew the contract, in conformity with the obligation assumed by it under the letter of December 20, 1887. Then, the company brought witnesses to show that his conduct and the way in which he managed his business rendered him an undesirable customer, but it failed to establish this pretension. The majority of

this Court are of opinion that a valid obligation was incurred by the company, under the terms of the letter in question, and that no reason has been established why it should escape from its responsibility."

The Honorable the Chief Justice dissented from this opinion, as follows : "My learned colleagues see in this letter an obligation to renew the contract on its expiry, if it had been well filled by Vasey, and, arriving at this conclusion, they confirm that part of the judgment which has granted to Vasey \$10,000 damages, resulting from the refusal of the company to renew. They consider this letter as forming part of the contract, and as being one of its conditions. I cannot concur in this opinion. The letter was given in the sense mentioned by Vasey in his evidence. If we are satisfied with you as a customer, we will take into favorable consideration a request on your part to renew. One can see that the satisfaction which the customer gives to the merchant does not only consist in the accomplishment of the obligations which he has contracted, but also in the interest which the merchant has to transact with him, and in the profit which he makes. 'If we are satisfied with you as a customer' is not the equivalent of 'if you carry out your contract well.' In any event, 'to take into favorable consideration' the request to renew a contract is not to contract to renew it. To take into consideration supposes a deliberation, and if the company has reserved for itself the right to deliberate, even in the case where it would be satisfied with Vasey, it has reserved to itself the right to use its discretion and to consult its own interests at the time of the request to renew. It seems to me that a much more formal expression would be necessary than this which one finds in the letter, to force us to conclude that the president of the company wished, five years in advance, to bind the discretion of the directors, and oblige them to renew the contract, even to the detriment of the company."

Mr. Justice Hall, in supporting the remarks of Mr. Justice Wurtele on this point, says :

"The Chief Justice's interpretation of the letter of the December 20 applies the

**WIRE NAILS
TACKS
WIRE**

Prompt Shipments

The ONTARIO TACK CO
Limited
HAMILTON, ONT.

word 'satisfactory' to the contract, rather than to respondent's execution of it.

"It appears to me, first, that if that had been the intention, the word contract would have been used, and not the word customer, and, secondly, that a letter in that sense would have been meaningless, as, naturally, the Gas Company could have been relied on to renew a contract which gave them satisfaction. It should be noted that, in so far as the financial result of the contract was concerned, the gas company could appraise its satisfactoriness as well at its beginning as at its end. They were not assuming one dollar of expense, and only giving to Vasey the use of waste products, to be worked up at his own expense, and only giving to Vasey the use of waste products, to be worked up at his own risk and expense, and every pound sterling which his process secured for them was a pound of clear profit; but, then, former experience, both in dealing with these products themselves and in farming them out to contractors, had been unsatisfactory, principally for the reason that the methods of manufacture previously in use had proved noxious to the health of people residing in the vicinity, and had consequently provoked the interference and complaint of the municipal authorities. Vasey assured them an exemption from this inconvenience, under his improved methods of manufacture, and was so confident in this respect that, although insisting at first upon a contract for ten, or, at least, eight years, he finally consented to a formal contract for five years only, with the company's assurance that, if he proved satisfactory as a customer, his application for a renewal of the contract would be favorably entertained. It appears to me that both the contracting parties took the same view of the letter when it was written, and that it is only the discovery that more can now be realized from these by-products that has induced the gas company to endeavor to give to the letter an interpretation at variance both with its natural import and their own original understanding of it."

Thus judges disagree. The case has been taken to the Privy Council. Its decision will be awaited with interest.

BASE PRICE FOR WIRE.

Drawers of wire in Canada have drawn up a new list, under which they will hereafter quote. It is based on the list in vogue in the United States.

The advantage of this list is that it enables the manufacturers to change prices at a minute's notice, the same as in wire nails. The Montreal manufacturers will equalize freights in the west and the western manufacturers will equalize freights in the east.

The base price for ordinary lots to retailers is \$2 per 100 lb. f.o.b. Montreal or Hamilton.

The list of extras is as follows:

Nos.	Bright and Annealed.	Coppered.	Galvanized.	Tinned.	Extras NET.
	Per 100 lb.	Per 100 lb.	Per 100 lb.	Per 100 lb.	Per 100 lb.
2-8	Base	50c. extra	50c. extra	\$2.00 extra	
9	Base	50c.	40c.	2.00	
10	6c. extra	56c.	56c.	2.06	
11	12c.	62c.	62c.	2.12	
12	20c.	70c.	68c.	2.20	
13	30c.	80c.	65c.	2.30	
14	40c.	90c.	60c.	2.40	
15	55c.	\$1.05	90c.	2.55	
16	70c.	1.20	1.45	2.70	
EXTRAS NET.					
Per 100 lb.					
Oiled wire.	.05				
Spring wire.	.75				
Special hay-baling wire.	.25				
Best steel wire.	.65				
Bright soft, drawn.	.15				
Charcoal (extra light)	1.00				
Packed in casks or cases	.15				
Per 100 lb.					
Packing and papering.	.10				
50 and 100-lb. bundles.	.05				
In 25-lb. bundles.	.10				
In 1-lb. hanks.	.50				
In 1/4-lb. hanks.	.75				
In 1/2-lb. hanks.	1.00				

ADVANCE IN BARBED WIRE.

Still another advance has taken place in barbed wire in both the United States and

Canada. The price f.o.b. Pittsburg and Cleveland is now \$2.15 in single carloads.

In Canada, the manufacturers have marked their figures up 15 to 20c. per 100 lb., and 4 and 2 point are now quoted at the same price. We quote f.o.b. Toronto as follows: Barbed wire (4 and 2 point), \$2.30 per 100 lb.; safety barbed, \$2.40; plain twist, \$2.30.

Staples are unchanged.

MONTREAL HARDWARE HOCKEY LEAGUE.

A close and exciting game was played on Thursday, February 9, in the Crystal Rink, between teams from Caverhill, Learmont & Co. and Montreal Rolling Mills Co. The first half ended with neither side scoring. The second half opened up with some splendid rushes by Hough and Lawlor, Hough finally scoring, thereby adding another victory to the "M" Brand Horse-shoe boys' list.

The teams and officials were:

M. R. M. Co.	C. L. & Co.
White	Goal Donnelly
Moore	Point Bain
G. James	Cover point Newman
Hough	Forwards Davidson
Lawlor	Briegle
O'Dowd	Cockburn
A. James	Warminton
Rev. W. H. Stevens	Umpires W. Beatty
O'Shaughnessy	Timekeepers Wright

Mr. H. G. Collins, of the Montreal Hockey Club, refereed the game in a most satisfactory manner.

The Sherwin-Williams Paint

(Prepared)

It is for painting buildings. It is ready for use. It is made of Pure Lead, Pure Zinc and Linseed Oil. It is now generally admitted that Lead and Zinc properly combined make a better paint than either alone. We know this to be a fact. We have studied the question for twenty-five years and more, and have made thousands of experiments with the sole object of finding the truth, and ascertaining what makes the best paint—the best for wearing, the best for covering, and the best for appearance. We have no more interest in zinc than lead, or lead than zinc. The only interest we have is in producing the best paint.

It is with the utmost confidence, therefore, that we press upon every paint consumer the desirability, the advantages of using **THE SHERWIN-WILLIAMS PAINT** (prepared) in preference to any other painting material.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

Walter H. Cottingham,
Managing Director,
Canadian Department.

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

SACREDNESS OF APPOINTMENTS.

THERE is one thing that is almost as sacred as the marriage relation—that is, an appointment. A man who fails to meet his appointment, unless he has a good reason, is practically a liar, and the world treats him as such.

"I give it as my deliberate and solemn conviction," said Dr. Fitch, "that the individual who is tardy in meeting an appointment will never be respected or successful in life."

"If a man has no regard for the time of other men," said Horace Greely, "why should he have for their money? What is the difference between taking a man's hour and taking his five dollars? There are many men to whom each hour of the business day is worth more than five dollars."

When President Washington dined at four, new members of Congress invited to dine at the White House would sometimes arrive late, and be mortified to find the President eating. "My cook," Washington would say, "never asks if the visitors have arrived, but if the hour has arrived."

When his secretary excused the lateness of his attendance by saying that his watch was too slow, Washington replied: "Then you must get another watch, or I another secretary."

Franklin said to a servant who was always late, but always ready with an excuse: "I have generally found that the man who is good at an excuse is good for nothing else."

On the eve of Nelson's departure on a famous cruise, his coachman said that the carriage would be at the door punctually at six o'clock. "A quarter before," said the admiral. "I have always been a quarter of an hour before my time, and it has made a man of me."

Napoleon once invited his marshals to dine with him, but as they did not arrive at the moment appointed, he began to eat without them. "Gentlemen," said he, "it is now past dinner, and we will immediately proceed to business."—Farm and Fireside.

PETROLEUM IN NEW BRUNSWICK.

Mr. W. B. Beaumont, of Moncton, in conversation with a Transcript representative recently produced a sample of the Albertite coal. Years ago he said when the Albert mines were in operation he saw oil in the west tunnel in such quantities that buckets of it could be secured. He has seen men taking buckets of it home. This oil was found 1,400 feet below the surface. These mines have not been in operation for some years. It is not improbable that systematic prospecting, combined with ample capital, will demonstrate the existence

of paying wells of petroleum both in Nova Scotia and New Brunswick.

200 PULLEYS PER DAY.

The Dodge Manufacturing Co. of Toronto, Limited, are calling the attention of the trade, through their advertisement in this issue, to the Dodge standard and split pulley as a salable specialty in all manufacturing

centres. The Dodge pulley is now on sale in every city and centre of note throughout the world. The Dodge Co. have very extensive facilities, their Toronto works having a capacity of 200 pulleys per day. They carry an immense stock on hand for prompt shipment, and can execute almost any order for pulleys on date received. They mail free a 270-page catalogue; also a handsome show-card, for the asking.

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and carefully selected; will double seam either way of grain; are fully equal in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

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Iver Johnson Cycles

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Honest Cycles at Honest Prices.

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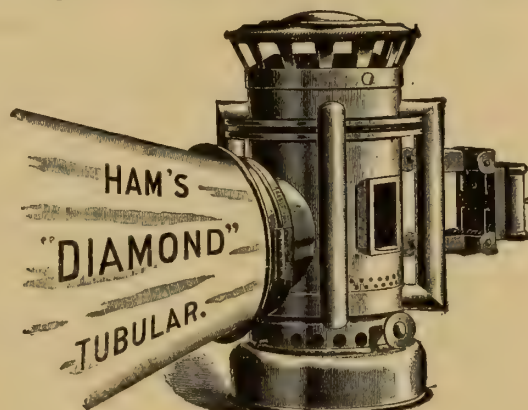
*all units
28/2/99*

Bicycle Sundries

1899

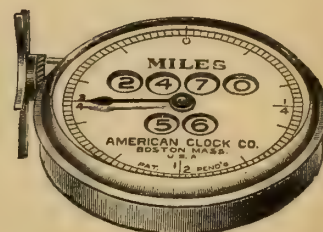


BELLS



LANTERNS

1899



CYCLOMETER NO. 3

PUMPS

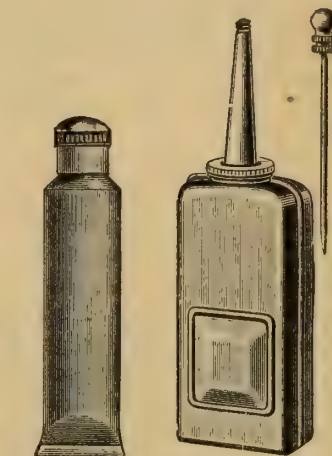


HAND

FOOT

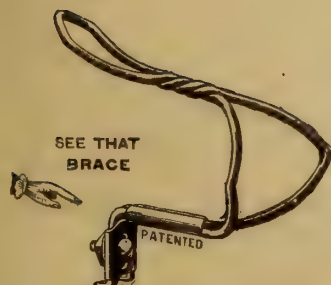


PAD LOCKS

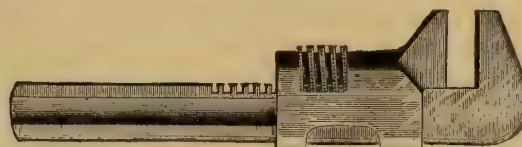


CEMENTS

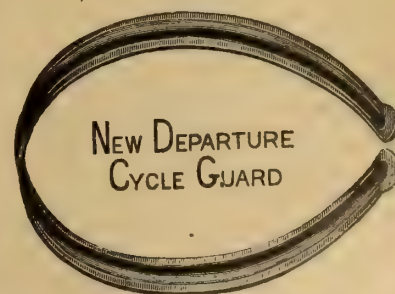
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Saddles, Chain Lubricant, Pedals, Oil, etc.

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WHOLESALE
ONLY.

Graham Wire and Cut Nails are the Best.

OUR PRICES ARE
RIGHT.

CATALOGUES, BOOKLETS, ETC.

IVER JOHNSON BICYCLES.

ONE of the most artistic catalogues of the year is the bicycle catalogue issued by Iver Johnson's Arms & Cycle Works, Fitchburg, Mass. A large number of small half-tone cuts showing the advance in the use of implements of war, from the ancient stone age to the present when the bicycle is a valued auxiliary of the modern firearms, give this catalogue a very artistic appearance. The cuts of the various grades of wheels, and of the parts used in their construction, show off excellently the beautiful design and finish of the Iver Johnson wheel. This wheel is, by the way, one of the most finely-finished on the market. Four coats of enamel are applied, and the frame is carefully rubbed, pumiced and dried between each coat. After the last coat of enamel has been baked on, a coat of varnish is applied, which gives the fine lustre so much admired. The color options are black, maroon and green, with trimmings to match. To those who are acquainted with the Iver Johnson firearms or bicycles of past seasons, little need be said regarding the strength and quality of this wheel. Some improvements to its parts have been made which will make their 1899 wheel the best they have yet put on the market. The Iver Johnson is made to sell at \$40, \$50, \$60 and \$75. See the catalogue.

CAVERHILL, LEARMONT & CO.

Little need be said of this house. Their reputation is a guarantee of the quality of their goods. This year, they are handling Columbus and Earl wheels. The Columbus is made in two grades, \$75 and \$50; the Earl sells at \$40. One of the special features of the Columbus is its bearing system, which is the 5-ball bearing system, with patent retainers and separators, which makes it impossible to cramp or twist a ball, as they act independently of each other, and which insures easy and noiseless running qualities. Caverhill, Learmont & Co. carry a variety of bicycle sundries, such as lamps, bells, cyclometers, oil, lubricants, clips, pumps, wrenches, locks, stands, etc., that hardware dealers should have their catalogues as a reference.

M'BURNEY-BEATTIE WHEELS.

One of the successes last season in bicycle circles, at least as far as Toronto was concerned, was the McBurney-Beattie, which was one of the few really popular wheels in that city. This year improvements have been made to some of its parts, and its manufacturers are doing a much bigger business, even than last year. The McBurney & Beattie Co., besides making a \$75 and \$55

wheel, are Provincial agents for the Yale bicycle which is listed at \$40.

HIGH PRESSURE CEMENTS, ETC.

The National Cement and Rubber Manufacturing Co., Toledo, Ohio, are makers of a high-grade of rubber, liquid tire and plugging cements, lubricants, oils, graphites, enamels, brushes, varnishes, polishes and other bicycle sundries. They also manufacture a large line of bicycle repairing machines, such as brazers, forgers, vulcanizers, gasoline torches, enameling ovens, etc. In a neat little book they give a full illustrated description of their wares, which might be made of service to bicycle dealers who have a repair shop in connection.

WELLAND VALE WHEELS.

A Canadian bicycle firm which is steadily gaining ground is The Welland Vale Manufacturing Co., Limited, St. Catharines. This firm make the Perfect, at \$85, \$75 and \$65; the Garden City, at \$55; the Dominion, at \$45. Their 1899 catalogue, now ready for distribution, gives, as well as a description of their wheel, some excellent cuts of their manufacturing establishment. It is worth seeing.

THE MONARCH.

One of the standard wheels of the United States is the Monarch, a wheel which has built up a remarkable reputation as a racer. The Monarch Cycle Manufacturing Co., Chicago, are one of the largest bicycle makers in the United States, and have always kept in line with the improvements in bicycle mechanism. Their catalogue describing the Monarch and the Defiance wheels is well worth seeing.

LONDON BICYCLES.

W. Mann & Co., manufacturers of London, at \$60; the Capital, at \$50; the Alert, at \$40; the Storm, at \$35, have not yet issued their regular catalogue, but have sent out an advance circular, giving details of the mechanism of the goods they are making this year. The bicycles made by this firm have a great reputation at home, and are bound to win more favor abroad.

The Crescent Bulletin heads the title page of a neat little pamphlet just issued by The Western Iron Wheel Works, of Chicago. It contains the price lists of the new 1899 wheels made by the firm, and other matter of general interest to wheelmen. Being nicely illustrated, and with its matter neatly arranged, any desired information can be had at a glance. Readers of HARDWARE AND METAL can apply for this price list to T. W. Boyd & Sons, Montreal.

Emery and Hardware Specialties

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Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

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Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM. SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.



COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.



McLaskill, Dougall & Co
Fine Varnish & Japan
Manufacturers
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Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

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Montreal, Canada.

SISSONS BROS. & CO. of Montreal LIMITED

Manufacturers

Pure English Varnishes Mixed Paints Colors in Oil Dry Colors, etc.

Proprietors and Manufacturers
"HALL'S PATENT"

Washable Water Paint

A paint thinned with water—that covers more, stands better and goes further than oil paint.



Every package bearing this MARK is fully guaranteed.

WRITE FOR FREE SAMPLES AND SHADE CARDS.
WE LIKE ENQUIRIES.

C. R. McDOWELL,
Canadian Manager.

Office and Warehouse,
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... MONTREAL ...

VALUE OF TIME.

PERHAPS it is not too much to assert that the majority of men have a very inadequate conception of the value and extent of time, says Stoves and Hardware Reporter. The man of business, however, who is truly progressive and ambitious learns to understand just what five minutes will do, and what it means. It may mark the limit of banking hours, or the departure of an important train. Promptness is so large an essential in business circles and a few wasted moments may mean so much of gain or loss or wasted opportunity, that men are well-nigh compelled to learn the value of time. No one can afford to underestimate its uses. He who manages to accomplish much is the one who has learned to save and use his minutes.

Men who are really industrious, and who consider themselves quite conscientious, think nothing of squandering ten or fifteen minutes

in unmeaning, unsatisfactory chat with an acquaintance, and then wonder at the close of the day what has become of the hours. A very few misspent half-hours destroy the day's usefulness. There is, of course, another extreme to which it is possible to go and which is well-nigh as objectionable as the waste of time in gossip, and that is the man who rushes headlong into his business and is so engrossed in his pursuits that he can never take a minute of his precious time to speak to anyone. His mind gradually becomes so crowded with his business cares that he begrudges any time given to a friend. There is, however, a happy medium between these extremes which it is well worth every man's while to strive to attain.

Time means golden opportunities for so many helpful, interesting and profitable occupations. Much of the difficulty just described is the result of planning more than can possibly be accomplished. The

consequence is that both employer and clerks are harrassed in mind and spirit; and the consciousness of tasks arranged for but not accomplished produces insomnia, irritability and general disorganization of the nervous system of those who do not realize that their fault lies not in the failure to meet all the demands which are allowed for, but in an incorrect estimate of the limitations of time.

WHY HE WROTE GOOD ADS.

The young fellow who was cudgeling his brains over a love letter and asked his sister what she liked to have from her best beau, had the right idea. He was a great success, both in love and business. He was not satisfied with saying what sounded well to himself; he wanted to be sure the girl would be pleased.

When this little affair had all been settled by mutual friends and state and church, he employed the same method in business. He probably asked his wife, and his sisters, and his cousins, and his aunts for opinions on ways of telling the news of his store. Consequently, he wrote ads. that sold goods.—Charles Austin Bates.

1899

Twentieth Year

Rambler

1899

Twentieth Year

GORMULLY & JEFFERY
MFG. CO., CHICAGO.

Bicycles

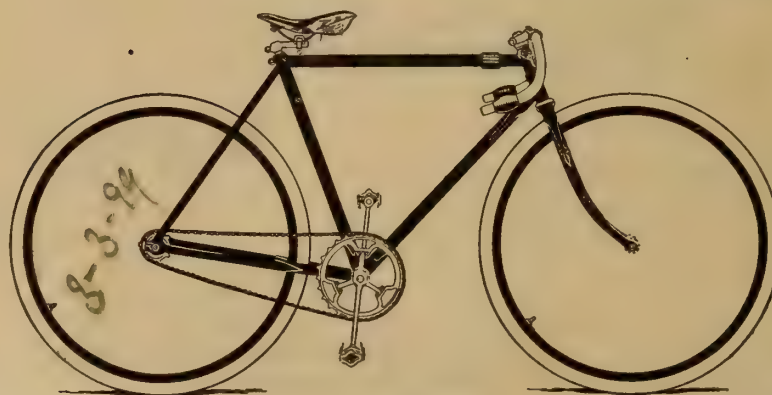
One Grade

Name

Quality

Price

All count in



\$50.00

Seven Models

28 INCH WHEELS

30 INCH WHEELS

TANDEMS

No better wheels
at any price than

Rambler
BICYCLES

IDEAL BICYCLES

SHELBY CYCLE MFG. CO.,
SHELBY, OHIO.

12 Models \$25.00 to \$45.00

IDEALS ARE SOLD BY MOST RAMBLER AGENTS.

SOLE AGENTS FOR

Rambler and Ideal Bicycles
for Ontario, Quebec, New
Brunswick and Nova Scotia.

Bertram, Wilson & Co.

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OF OUR NEW

Imperial Oxford

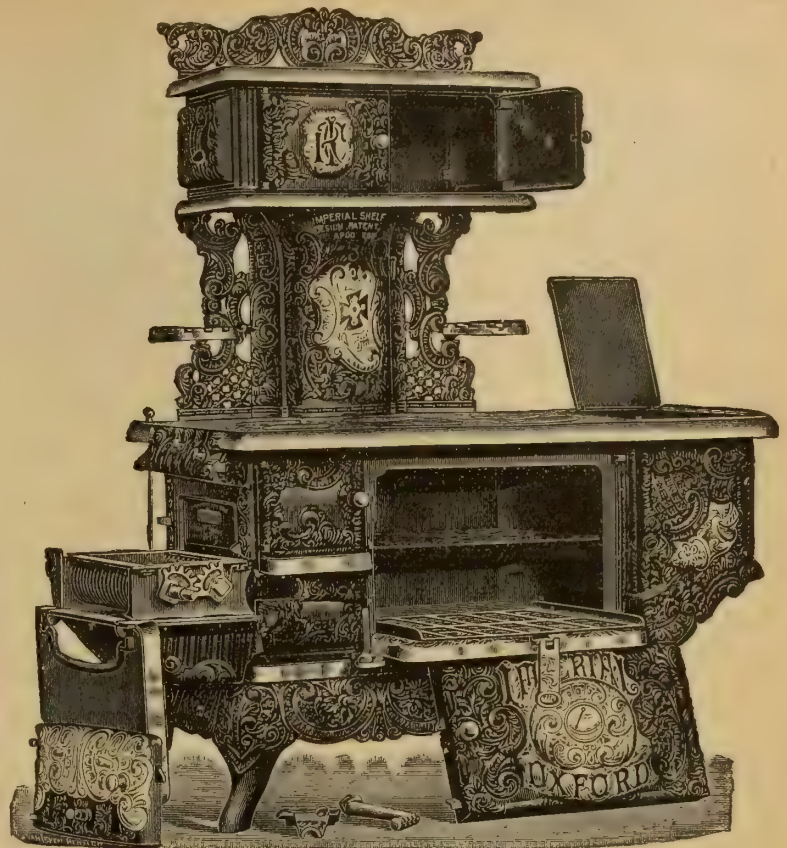
is one of the special features that give it precedence over all other ranges.

This arrangement is of special advantage, as nothing—not even the warping of the frame—can interfere with its easy working.

**The Diffusive Flue Construction,
Draw-out Oven Rack,
and Oven Thermometer,**

are other improvements that have made the Imperial Oxford the success of the season—popular everywhere.

If you're not handling them write for price list—they're wonderful sellers.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

METALS

Antimony

Brass . .

Copper . .

We regret to advise that owing to the continued advance in prices of metals, we are compelled to withdraw all quotations. All prices submitted by us, either verbal or written, will be subject to change without notice.

Our intention is only to make such advance as conditions necessitate, and we will be pleased to quote you prices upon application.

Lead . .

Tin . . .

Zinc . .

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

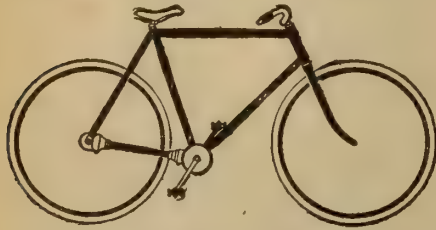
26 to 30 Front St. West TORONTO.

STEARNS WHEELS.

THE Stearns regular high-grade Model A, the standard line, will list at \$55.

This moderate price is having a tendency to make buyers prefer the higher grade rather than the medium line, as the difference in price between the higher and the lower grades would be so very little.

The general demand is for the turned-up handles for city and town use, though the



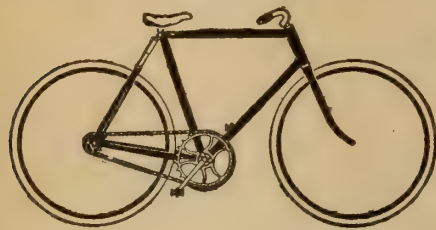
Stearns Chainless, Model G.

ram's-horn is still in demand for scorchers, who are not all dead yet. The Stearns wheels are this year fitted, so as to meet any desire



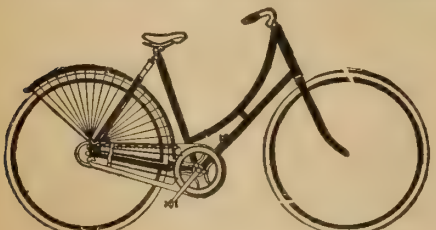
Stearns Ladies' Chainless, Model H.

on the part of riders, with adjustable handle-bars, held in place, as is also the seat-post, by a unique internal binding device.



Stearns Hygienic Cushion Frame, Model K.

One of the great nuisances with bicycles has long been the breaking and loosening of handle-bar grips. This has been effec-



Stearns Hygienic Cushion Frame, Model L.

tively provided against by a clever device in the 1899 Stearns.

Sprockets are larger than ever this year, and cranks are longer, a 7-inch crank being fitted on the 1899 Stearns mounts. The favorite chain is narrow, a 3/16-inch being used on all models. Those on the special grades are finely nicked. The tread is narrower than ever this year, measuring an

even 4 inches. All 1899 Stearns wheels will be fitted with a special Stearns pedal.

There has been a reaction this year from the exaggerated low frame of 21 and 22 inches bought so largely last year, the demand now being for a 23-inch frame. No change is made in the general lines of the frame, but models K and L, listed at \$70, are equipped with a hygienic cushion frame, making it free from sudden vibration when passing over obstacles. The frame of the Stearns chainless, listed at \$80, is similar to that of last year in general appearance.

This year, a wheel finished entirely in black will be placed on the market, as well as the well-known Yellow Fellow, by The E. C. Stearns Company. The 1899 Stearns catalogue is now awaiting distribution.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

H. W. WADDELL, general merchant, Port Lambton, Ont., is calling a meeting of his creditors.

Peter Campbell, general merchant, Arichat, N.S., has assigned.

J. R. Stewart, general merchant, Souris, Man., has assigned to S. A. D. Bertrand.

A liquidator for The British Columbia Iron Works Co., Vancouver, has been appointed.

PARTNERSHIPS FORMED AND DISSOLVED.

F. Beauchemin & Co. have registered partnership as carriagemakers in Montreal.

Erbach & Lierch, coal dealers, Baden, Ont., have dissolved, W. H. Erback continuing.

Corbett, Crispo & Co., general merchants, Harbor au Bouche, N.S., have dissolved, Michael Crispo continuing.

Wm. Thompson, general merchant, Thurso, Que., has admitted his son, W. H. Thompson, under the style of Wm. Thompson & Co.

Joseph C. Rouleau, jr., and J. N. Rouleau have registered partnership under the style of Rouleau & Frere, bicycle dealers, St. Hyacinthe, Que.

SALES MADE AND PENDING.

Veith & Boreland, general merchants, 150-Mile House, B.C., have sold out.

The assets of A. Pallascio, hardware dealer, Montreal, are to be sold in lots.

The business of Thos. Calvert, blacksmith, Kleinburg, Ont., is offered for sale.

The stock of the estate of H. C. Dahl, general merchant, Erin, Ont., has been sold.

Ferdinand Perrault, general merchant, Rimouski, Que., has sold his stock at 61 1/2 c. on the dollar.

Burke Bros., general merchants, Winnipeg, have sold their stock and fixtures at 63 c. on the dollar to Mrs. C. C. Coutier,

and their book accounts at 19 1/2 c. to G. H. Monkhouse.

CHANGES.

The Toronto Sporting Goods Co., Limited, has been incorporated.

John Spittal, blacksmith, Stonewall, Man., has sold out to J. W. Fullbrook.

The Woodstock, Ont., Metal Working Co., Limited, has been incorporated.

S. Smiley & Co. have bought out C. B. Purvis, general merchant, Otterville, Ont.

Isaac Crosby is giving up business as general merchant in Richmond Hill, Ont.

Robert Sadlier, general merchant, Edy's Mills, Ont., has been succeeded by Frank Rae.

The Godfrey Hardware Co., New Westminster, B.C., has been succeeded by Anderson & Co.

The Abbott-Mitchell Iron and Steel Co. of Ontario, Limited, Belleville, Ont., has been incorporated.

J. H. Johnson, dealer in agricultural implements, Picton, Ont., has been succeeded by S. A. Johnston.

FIRES.

T. I. Thomson, hardware dealer, Owen Sound, Ont., has been burned out.

The building of Higgins & Webster, general merchants, Roland, Ont., has been burned.

Thos. Scott & Co., harness dealers, McGregor, Man., have been burned out; partially insured.

J. E. Birch & Son, hardware dealers; C. W. Johns, carriagemaker and painter, and Lawrie & Bond, blacksmiths, Roland, Man., have been burned out.

The factory of The Geo. Gillies Co., Limited, Gananoque, Ont., manufacturers of carriage hardware, forgings, bolts, etc., has been damaged by fire; insured.

DEATHS.

Hugh Ryan, contractor, Toronto, is dead.

George Creed, general merchant, Rawdon, N.S., is dead.

Nathan Nichols, builder, Peterboro', Ont., is dead.

R. F. McNeil, of McNeil Bros., carriage-makers, Iona, N.S., is dead.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.

FOR SALE.

A SECOND-HAND BICYCLE. IRIS MAKE. Ridden one year. Will sell for \$20. Apply Box T, HARDWARE AND METAL, Toronto. D.H.

SITUATION WANTED.

WANTED, SITUATION AS HARDWARE TRAVELLER or salesman, 25 years' experience, a hustler, not afraid of work, best of references. Address, Box G, HARDWARE AND METAL. D.H.



A CAN FAUCET FOR A CENT

Send me your address on a postal and I will mail you a free sample of the cheapest can faucet made.

J. M. LITCHFIELD
458 Quincy St., Brooklyn, N.Y.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

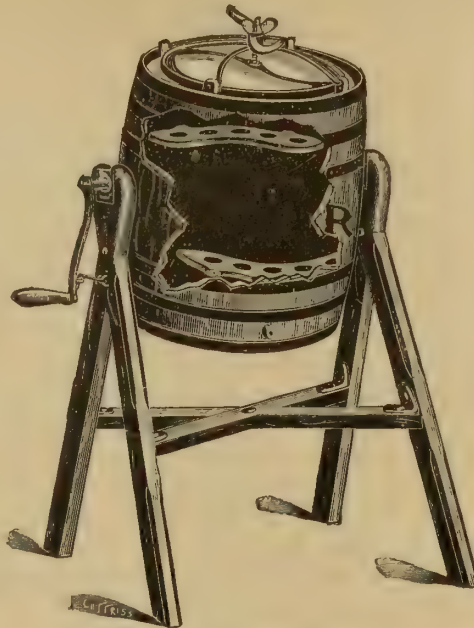
BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Have you **"True Brand"** in Stock?

If your Jobber does not keep it write us direct and we will send you Samples.

The **"True Brand"** is the best line of Cutlery on the market.

Our Trade Mark on every piece guarantees the quality.



THIS IS OUR LATEST STAND WITH BALL BEARINGS.

W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.

THE

LEADER CHURN.

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.

Made Exclusively by _____

**THE DOWSWELL
MANUFACTURING CO.,**

Limited

HAMILTON, CANADA

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale "House" does not offer you these articles

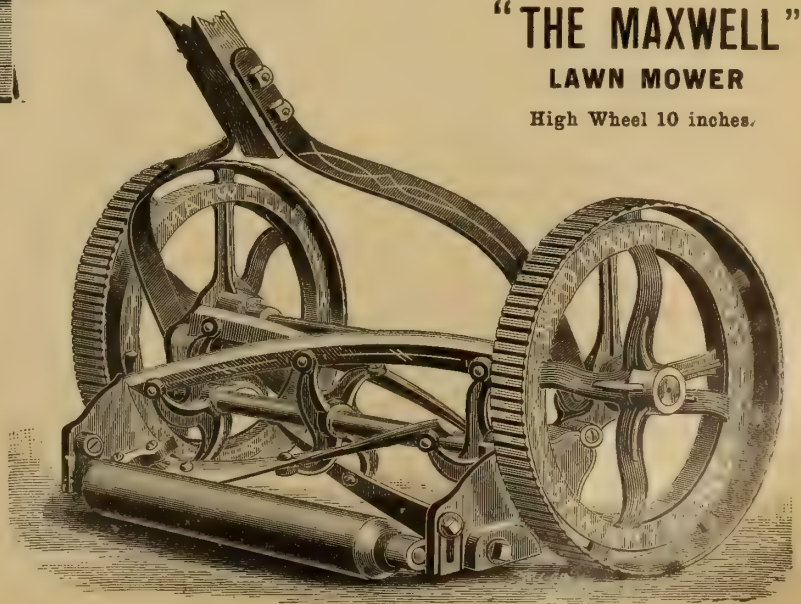
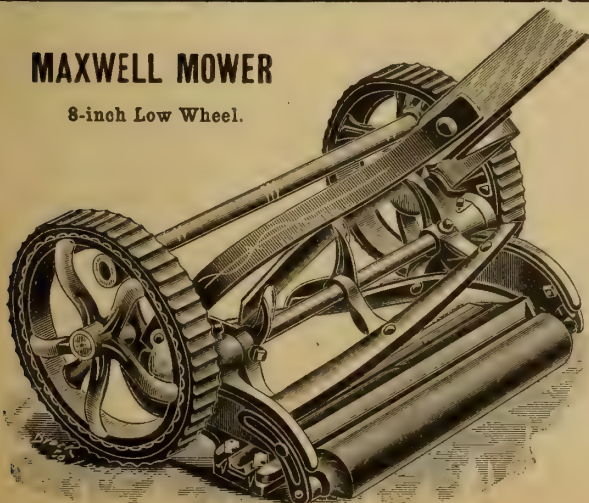
SEND DIRECT TO US.

"THE MAXWELL"**LAWN MOWER**

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



IN THE LAND OF THE LION AND THE SUN AWHEEL.

By Thos. G. Allen.

ONE of the most frequent, and, perhaps, most natural, questions asked the traveler just returned from the east is: How were you impressed with the Oriental beauty? Speaking for myself, I can say that I have not found it as Thomas Moore and other western writers would have us believe it. The beauties who figure so picturesquely in our western literature have been taken from models which were much nearer the home of the poet-painter. During a recent journey across Asia on a bicycle, we were frequently called upon to give bicycle exhibitions to the ladies of the harems belonging to the different potentates. These occasions afforded us more opportunities, perhaps, than most travelers to discern the truth and fiction of this much-disputed point; and we are now prepared to state that, in all our experience, we never saw one Oriental beauty—not one—that could compare, either in face or figure, to the hundreds, aye, thousands, we have seen in the United States of America.

We gave one of these exhibitions at Bayazid. The rabble raised a lusty cheer as we wheeled down from the embattled heights of the city. Even the little choyuks, raised above the heads of the surging human mass, waved their chubby hands in glee and lisped the shout, Jinn-araba-jee—the devil's cart riders. This with them was our only title, and probably always will be the distinguished appellation of our fellow countrymen. Should an American ever again happen in the midst of these simple-minded folk he will likely be asked the question, "Where is your devil's cart?"

An hour later we were speeding along over the Teheran-Trebizond caravan trail toward the Turco-Persian border line. Although the main avenue of communication between Turkey and Persia, this highway consists of little more than a series of well-beaten camel paths. With the exception of two macadamized and well-engineered roads connecting the interior with the Black Sea ports, the roads in Asiatic Turkey, as throughout the Orient, have been left to nature and the traffic. To build a road in this country is comparatively easy, for in many districts we found shale rock and ready-made macadam in hillocks by the wayside, where only a pick and shovel were needed to make the finest kind of a chaussee, while, on the other hand, marble and granite in many places were broken up by hand and carted a mile or two to serve the same base purpose.

The traffic on this formerly important trade route between the Persian capital and

the Black Sea has considerably diminished since the opening of the Trans-Caucasus railway to the Caspian Sea, yet large caravans of camels and donkeys are by no means infrequent. In fact, as we stood on the summit of Zazlee Gool, looking down for the first time over the land of Iran, a caravan of at least 2,000 of the latter were wending their way up the opposite slope amid the frequent shouts of "Ja Hou!" (Oh God!), from their impatient drivers. This was our first meeting with the Persian "donkey boys," and here we first began to feel the force of their proverbial bantering and jesting. After recovering from their astonishment at what, as they expressed it, "their grandfathers never saw in a dream," they began by asking in broken Turkish if we sold our horses by the pound, and how much feed they required in a day. In the course of our reply we were guilty of some rather disparaging insinuations. "For our donkeys," we said, "we need not stable, curry or feed, but only give them a little oil occasionally." "Humph," replied the wily Redbeards, "that's nothing. We don't stable, curry or feed our donkeys, and don't give them any oil either." The truth of this assertion was too apparent in the donkeys themselves to admit of refutation.

This typical Persian experience was followed by another a half hour later when we entered the first Persian village, where one of the usual thatched mud houses was in the course of construction. The peculiar chant of the musical masons attracted our attention at once. As the adobe bricks were pitched from the ground to the scaffold the mason sang in a tone as monotonous as his labor: "Give me a brick, my life; my darling, hand me a wee baby brick." And then, the next moment, if the brick didn't happen to suit him, he would turn and bestow upon his helper the endearing title of "Son of a burnt father," which meant, of course, that his paternal ancestor had been spending an extended vacation in some rather tropical locality. We also noticed that a slaughtered sheep hung from the scaffold to bleed, as a propitiatory offering over the spot where a fellow-workman had met his death the day before.

At this village, our honorary escort of mounted Turkish soldiers, which the Governor of Bayazid had really forced upon us, was exchanged for a guard of Persian ferashes. No protest on our part was sufficient to relieve us of this burden of excessive hospitality. These fellows, like our Turkish zaptiehs, were, as we soon learned, inveterate smokers and fond of

ostentation. They frequently took us out of the way to show us off to relatives or friends in a neighboring village. Puffing themselves up with a sense of their self-imposed responsibility, they would dash at full speed down the principal street, or, rather, dung-covered lane, of the village, shouting "Habardar; biroeed" (Look out; get out of the way), and throw the whole community into an uproar.

The Persian is, by instinct, an energetic and bold rider; he stops at nothing. Many times, in the excitement of the moment, these would-be myrmidons have pressed so closely upon us as to cause a side collision, but in every instance we were lucky enough to regain our equilibrium.

Nature at last came to relieve us of this expensive nuisance. As we were descending into a narrow gorge-like valley, an approaching storm broke upon us with terrible fury. Though it was the middle of July, the hailstones fell as large as walnuts, bruising and cutting our knuckles on the handle-bars of our wheels and threatening to beat every moment through our resounding helmets. The ferashes could not, or, perhaps, would not, hold their frantic steeds. They dashed ahead to seek a place of shelter, and we saw them no more. The fusilade of icy bullets now gave way to liquid sheets. The road became a river-bed, the river-bed a torrent. Yet this we had to cross at least eight times before we could reach an open space of safety; for the foaming torrent threatened to swell to the limits of the gorge. Large rocks were washed down upon us at the fords as we waded with clothes and shoes on through the ice-cold water. At last, we reached a point where the gorge abruptly opened into a fertile valley. Here we found an encampment of "Iliats," that collective title for all the nomad races of Persia. This tribe was evidently of Kurdish stock, for their tents, one of which had just been washed away by the encroaching torrent, were identically the same as those of our Ararat acquaintances. Their elderly women, too, were just as ugly, and their half-wild shaggy dogs just as ferocious. These set upon us with savage growls, while their owners stood by motionless and speechless with amazement. We were now in no condition or humor to stand a siege, or, to all appearances, a sanguinary struggle, with such an enemy. A sharp report and a dead dog brought the owners to their senses, but not before we were again in the saddle and speeding out of range of a possible gunshot.

A letter from the Persian consul of Bayazid had committed us to the hospitality of the district khan of Avanjuk, and this, in view of the muddy roads or caravan tracks, we were more than pleased to accept for the

night. The servants were despatched at once for the musnuds, or cushions of honor, to be spread upon the divans, and tea was served in the interim, while the khan was getting ready to make his appearance. This beverage, although introduced from Russia only thirty years ago, is now closely identified with Persian life, at least, in the large towns and cities, and has already crossed the Turkish border in its westward course. Under its Chinese name of t'cha, English tea, and Russian chai, it will soon have covered the continent from the Pacific to the Bosphorus.

Under the genial glow imparted by this true friend of man, we began to take cognizance of our immediate surroundings. Could we really be in Persia? we thought, as we cast a hurried glance at the motley crowd outside, who, just at that moment, were boisterously contending for standing room around the encircled bicycles. For there, surely enough, was the Turkish fez, with the Persian skull cap and tall, black kolah; there were the baggy blouse and trousers, with the long, black, neat-fitting coat gathered at the waist; there was the heavy, slow, ungainly gait with the active, graceful step, so strangely intermingled one with the other. We had not then learned that Farsistan, the "Land of the Farsi," or Persians proper, is but a Province in the central southern part of the present empire, and that the collective name of "Irani," which the natives are pleased to claim as their exclusive title, includes not only the Iranians proper, but also the distinct and blended elements of Arabs, Kurds, and Turco-Tartars. These last, descendants of the immigrants from Tartary and Turkey, constitute the prevailing element in the population of Azerbaijan, the Persian Province we had just now entered.

Our tea-drinking thoughts were now interrupted by a voice from the doorway, and the khan himself approached with the salutation of "Salaam aleikum." "Aleikum salaam," we replied, as we courteously rose to bow our acknowledgments. This much of the Persian language we had already picked up, but only this, and nothing more; a fact which soon became only too painfully apparent to the khan himself, but of which we ourselves were unable to inform him. To extricate us from this dilemma, he now had recourse to one of his servants who had formerly been in English employ; but the linguistic accomplishments of this local servant, as we soon discovered, were confined to only two expressions: "Take something," and "Stopper's lost." These ejaculations, however damaging to the reputation of his former employer, would hardly suit the present purpose. By accident we discovered that the khan was well versed in

the Turkish language, in which we could at least express our own ignorance. We afterward learned that the Tartar, not Constantinople Turkish, is the prevailing language of northwestern Persia to within one hundred and fifty miles of the capital itself. This intermingling of national tongues is by no means peculiar to the Turco-Persian border; we found it the case with all the contiguous countries that lay in our trans-Asiatic pathway. This fact assisted us very materially in acquiring a smattering of the vernacular of each country, which, in the absence of all guides, interpreters and servants, we were obliged to attempt. The Chinese language is read by more people than any other in the world, but the Turkish, in its broadest sense, is certainly the most widely diffused. We found this tongue used, in its one form or other, all the way from Constantinople to the Great Wall of China.

A symmetrical figure, broad chest, regular oval features enframed in a setting of black curly hair, contrasting with the slightly prominent cheekbones and straight locks of the Turk, a large brown eye "with full and fawn-like ray," beneath a long-curved lash and perfectly-rounded eyebrow—these, with slightly aquiline nose and wavy, silky beard, dyed with henna, were the chief physical characteristics of our typical Persian host.

The Persians approach nearest of all Orientals to the western standard of beauty. They are, in general, not so muscular as their Turkish neighbors, but of much more graceful proportions. Their long, brainy heads, contrasted with the flattened occiputs of the Turks, stamp them at once, not only as far superior to the latter, but as one of the most intellectual races of mankind. In truth, their quick wit and shrewdness, their poetic fancy and excellent memory, even in their present degenerate state, have long since excited the admiration of the western world. We, ourselves, in our subsequent experience, met many a "young blood" of the higher caste, whose beauty, both of mind and body, would have made him a dangerous rival in any country for the admiration of the fair sex.

When the khan had exhausted his long list of questions about bicycles and bicycle traveling, he began to hint strongly at a practical illustration of what we had endeavored to explain. He did not make such a request point-blank, as this, according to native etiquette, would have been very unbecoming in even a common peasant, let alone a dignified official. Every Persian must learn how to control his emotions and their muscular expression. Upon this hint we prepared to act at once, for darkness was rapidly approaching; and besides, between the reader and ourselves, the khan had

casually intimated something about the ladies of the harem wishing to witness, what he called, the Tomysa.

Away from the vulgar crowd, in the poetic twilight of evening, amid the fragrant flowers and purling rivulets that bordered the garden pathway—no wonder our hands upon the bars became unsteady and our eyes distracted toward the latticed windows and the half-crouching figures in the doorway. But a suspicious glance from the khan, whose eyes were constantly upon us, recalled us at once to our situation, and caused the dark ribands, or veils, to drop to their former concealing positions. It was only by chance, of course, that we alighted, after our special manœuvres, in front of the anderoon, or harem door, just when the khan himself happened to be at the farther end of the garden. This move, as was expected, produced something of a flutter among the dazzled butterflies in the immediate vicinity, who were thereupon irresistibly drawn toward the fire from which they were admonished to escape. Before we or the khan could prevent it we were caught in a maze of fluttering garments and chattering voices. Mid frequent expressions of wonderment and interludes of half-suppressed giggles they ran their henna-imbued finger-tips along the "marvelous durishca" (double wheels), and over their submissive riders standing by, for, confess it we must, the Ferenghis and their peculiar costumes were an equally curious attraction. Now and then some "restless ray, full, floating, dark," beamed forth from beneath their drooping lashes around the edge of the straying ribands, while upon their half-hidden features the flush of excitement "but seemed to awaken new beauty, like flowers that are sweetest when shaken." But this brief experience of Koran felicity was suddenly interrupted by the commanding voice of the approaching khan. Our "bright-eyed houris" scampered back to their terrestrial Paradise, while we were left to return to our yataks or Persian floorbeds, to dream the dream of the Mohammedan blessed.

BALL BEARINGS.

The extent to which ball bearings are now employed is shown by the importation into the United States of at least 200,000,000 balls a year. Last season most of these were imported from Schweinfurt, Germany, where the largest manufactory of steel balls in the world is located. Recently a company has been formed in Pennsylvania, which includes many of the stockholders of the German company, and capital has been subscribed for the erection of a large works at that place for the manufacture of steel balls. The plant is to have a capacity equal at least to the importation demands of last year—200,000,000 balls.

THE COLUMBUS.

HANDSOME and graceful lines, finest equipment and the highest standard of finish, characterize the '99 Columbus bicycle, which seems to fairly bristle with new good talking points.

The five ball bearings with patent retainers and separators are one of the principal features. It was used last season with great success, and every Columbus crank hanger and hub will be equipped with it, and why not? The points of friction are reduced to a minimum—it is impossible to cramp the bearings or twist a ball, as they act independently of each other, and the device insures easy and noiseless running qualities not found in other wheels.

In addition to the above, the bearings will have interchangeable cones on a hollow axle, with cup and lock nut adjustment inside of barrel, which enables the removal of wheels from the frame without disturbing wheel adjustment.

All manufacturers concede that immersion or dip brazing is the only correct method of brazing flush joints — The Columbus Bicycle Co. are inventors and patentees of this system.

Cones and ball cups are made from Sander-son's tool steel and hardened in oil. They are ground on centres after tempering, the cups being ground after they are placed in hubs, thus insuring perfect alignment.

The crank and axle device is made in two pieces and fitted on an oval taper.

A few leaders are an eccentric chain adjuster, internal binders at handle bar and seat-post, three-crown construction, Dunlop new corrugated tire, Garford saddle and Standard equipment.

"The popular priced wheel" is the name given by the trade to the Earl, which is manufactured by A. D. Meiselbach, of Milwaukee. A careful look at this bicycle will convince hardwaremen that it is a line that they cannot afford to be without—made of Shelby seamless tubing, electrically welded connections and crank box, bearings made from high carbon tool steel specially adapted, hardened and ground, ball retaining and positively dust proof. The equipment of this wheel speaks for itself. New Dunlop tire, Garford saddle and Indianapolis chain place it on a par with most high grade wheels.

Caverhill, Learmont & Co. are to be congratulated on the splendid line of sundries they are special agents for in Canada, among which are, Mathews & Willard, Searchlight and Queen lamps; Brown, Garford and Hunt saddles, New Departure bells, Veeder cyclometers, Eclipse cements, and G. W. Cole's specialties.

Their fifteen travelers are now on the road with a full line of samples. Write them for a copy of their new art catalogue.

POINTS ABOUT CYCLE FINISH.

BEFORE commencing enameling, says The Cycle Trade, it is absolutely necessary in order to obtain good permanent results that the frames be highly polished and free from rust; indeed this is equally as important as any of the following operations, and has greater bearing on the durability of the enamel. The frames may

touched; of course the work is passed over the bob lengthwise of the tube until it meets the termination of the circular polishing previously done by hand at each end. By whatever method the polishing be done, the work must be delivered to the enameling room perfectly bright and free from rust or grease, and should be carefully examined, as well for any defects in "filling."

Now, a word on the importance of rust prevention. If rust is once allowed to enter the pores of the tube it is impossible to remove it or stay its further action; for no matter how well polished or how bright the work may look, if rust lies beneath the surface it will, sooner or later, lift the enamel and cause the roughness so often seen on machines that have been in use some little time. It is obvious, then, that the tubes should be free from rust when delivered by the maker, and they should not be allowed



THE COLUMBUS.

be polished by various methods, according to the plant available, but it is generally conceded that no system of machine polishing can equal hand polishing, and the best work always is, or should be, hand polished. For machine polishing emery tape of special make is used, and run over pulleys at a very high surface speed, the polishing being done on the portion of the belt between the pulleys. This system is a very quick method of following the file round the lugs and joints, but the great drawback is the danger of "nicking" in the tubes, as the slightest mistake in handling the frame may cause a serious defect of this kind. The clear portions of the tubing, away from joints, may be rapidly polished on a circular emery bob, the face of which is hollowed out to suit the section of the tube, and to this method there is no objection, providing care is taken that the sockets are not

to become rusty whilst in stock or progress. A good plan adopted by some makers is that of polishing each tube after cutting up and before brazing, so that the condition of the tube is more clearly ascertained before becoming part of a frame.

Once the frames are finished and polished bright, they should, if possible, have the first coat of enamel applied immediately, as it must be remembered that the more highly polished the steel, the more susceptible it is to rust; and the sockets, if of malleable, particularly so. Where a number of frames are completed some weeks or months before they are likely to be required for assembling, it is a good plan to give them the first, or grounding, coat of enamel, and let them remain in this stage until wanted for completion. There is a two fold advantage in this, as, in the first place, there is no more greasing or trouble in watching the frames;

and, in the second, should any faulty polishing have passed, or deeply-pitted tube been used, the defect will be discovered by the rust appearing through, and such frames may be returned to the polishing shop.

Fully three-quarters of the faulty enamelling seen is due to the presence of rust, so that too great care cannot be exercised, if best results are aimed at.

THE ERA OF ELECTRICAL TRACTION

The exact words of "Old Mother Ship-ton's" prophecy we do not remember, nor would it serve any useful purpose to search for them, but, among other things, she is said to have foretold that carriages would move without horses, says Electrical Engineer. The introduction of steam brought about the fulfilment of that prophecy—if, indeed, the prophecy was ever made—but we venture to think that the action of steam was never so surprising to the untutored mind as is that of electrical energy used to propel vehicles. In the one case, the least educated could see the stoker piling coals into the furnace, and has some little comprehension of the powers of steam, even if his observation has been solely upon the ubiquitous tea-kettle. With electricity it is very different. Only a wire, and a whirling gig which makes the wheels go round. And when the investigator asks, "What is it?" he gets as reply a shrug of the shoulders and "Don't know." Whatever the amount of ignorance acknowledged, or the pretence of knowledge shown, one thing is certain, and the progress of the past year shows it most conclusively. It is that, so far as Great Britain is concerned, the era for the use of electrical traction has really commenced. Previously, the indications were thought to be favorable, but the advance during 1898 has been enormous and certain. There can be no going back, and the advance will be rapid.

GLASS AS A PAVING MATERIAL.

Broken glass, usually considered one of the most valueless of waste materials, promises to become quite an article of commerce. According to a contemporary, the manufacture of glass brick for paving purposes has just been taken up on a large scale in Switzerland and France, and the city of Geneva already enjoys the distinction of possessing several glass-paved streets. The new material gives so much satisfaction in appearance as well as in strength and safety for horses, that the city of Nice, France, has also decided to put down glass pavement in the near future. There are two glass brick factories in operation, one being located at Denis-Lune, near Lyons, and the other at Bousquet-d'Orb, near the

Carmaux Glass Works, of which it is a branch. Two more are building, one at Creil (Oise), the other at Pont-Saint-Espirit (Gard). The glass scrap is first heated until it becomes soft, when it is compressed to brick. By such treatment the glass loses its transparency—that is, it becomes devitrified, but its strength and resistance to shock and fracture are rather increased. Glass scrap has for some time been converted to ornamental tile in order to take the place of mosaic or marble, but its use as a street paving material on a large scale had hitherto not been attempted.

CEMENTS FOR RUBBER.

MANY of our readers, says an exchange, may be interested in this subject, and we therefore give the following translation of an article which appeared in The Farbeu Zeitung. From this, we learn that a gutta percha cement for leather is obtained by melting together 100 parts gutta percha, 100 parts asphalt or pitch and 15 parts oil of turpentine. It is to be used hot. Elastic gutta percha cement, which does not crack in bending, on account of its great extensibility, is prepared by dissolving 10 parts gutta percha in 100 parts benzine and pouring the solution into 100 parts linseed oil varnish, shaking well. The leather must be roughened before using this cement, in order to ensure greater durability. By a caseine borax cement a handsome surface gloss is imparted to the leather. The borax is dissolved in boiling water, and the borax solution poured into freshly prepared caseine. The durable thick cement is very serviceable. Good caoutchouc cements, for rubber strips or rubber goods on metal, are obtained by dissolving shellac in ten times its weight of ammonia. After standing for three or four weeks a transparent putty results, which is used without heating. The cemented places soften at first, but become hard and firm after evaporation of the ammonia, which may be assisted by heating. This cement is water-tight and gas-proof, and is also useful for hard rubber articles. A cement made of a mixture of gutta percha with asphalt is serviceable for the same purpose. This has to be applied hot and the pieces are to be pressed together. Very useful cement for leather belting is manufactured by kneading ten parts carbon bisulphide and one part of oil of turpentine with gutta-percha until a thick paste results. The portions of the leather where the cement is to be applied must be uncoiled and roughened; the cement is put on and the ends are pressed together until the binding agent is dry. Directions for caoutchouc cements are: 100 parts finely cut caoutchouc, 15 parts resin, 10 parts shellac, dissolved in sulphide of carbon. One part caoutchouc, seven parts mastic, and 50 parts chloroform.

BICYCLE ITEMS.



Air Drying Enamels

Always on hand.

CARDINAL
PALE BLUE
PINK
BLACK

ORANGE
VERMILION
DARK GREEN
WHITE

Baking Enamels

All colors made to order.

Bicycle Varnishes

BAKING COPAL FOR FRAMES
UNDERCOATING RIM VARNISH
FINISHING RIM VARNISH
BAKING BLACK JAPAN

Grapholine Chain Lubricant

IN TUBES 4" x 3/4"



THE
**CANADA
PAINT
COMPANY**

LIMITED

MONTREAL

BRANCHES AT TORONTO AND VICTORIA

HISTORY OF THE RACYCLE.

THE PERFECT WHEEL WHICH OTHERS IMITATE, BUT CANADIANS ALWAYS PREFER THE GENUINE TO SOME COUNTERFEIT.

IN the fall of 1894, just after the gates of the great "White City" had been closed to the public, two well-known engineers were discussing the growing cycle industry and the mechanical features in the different machines which were being placed on the market. In this connection, after a very careful investigation, these two young engineers became convinced that there was not one single bicycle factory in Europe or America that had noticed that the principle involved in the construction of all bicycles was wrong, so they immediately commenced a series of experiments with purpose to rectify that error.

They saw bicycle factories springing up like mushrooms in a wet pasture all over the country, each factory claiming its machine was the best. Large city dailies were devoting pages to cycle building and construction. Promoters were getting up cycle shows, and every available space in the monthly magazines was eagerly seized by these manufacturers to describe and dilate on their 'drop forgings, tubing, some peculiarly constructed hub, or something for which they claimed superiority over all their competitors. Even the ten-cent name plate which embellishes the head of a bicycle was advertised, at a cost of thousands of dollars, to secure trade. Indeed, competition was so strong that manufacturers were forced to resort to every imaginable word-painting and trickery to persuade the public that they had the only machine worthy of notice. But in this anxious rush to surpass each other, they all overlooked one little law in mechanics; in other words, lost sight of the fundamental law of leverage in constructing that portion of the bicycle where the foot power

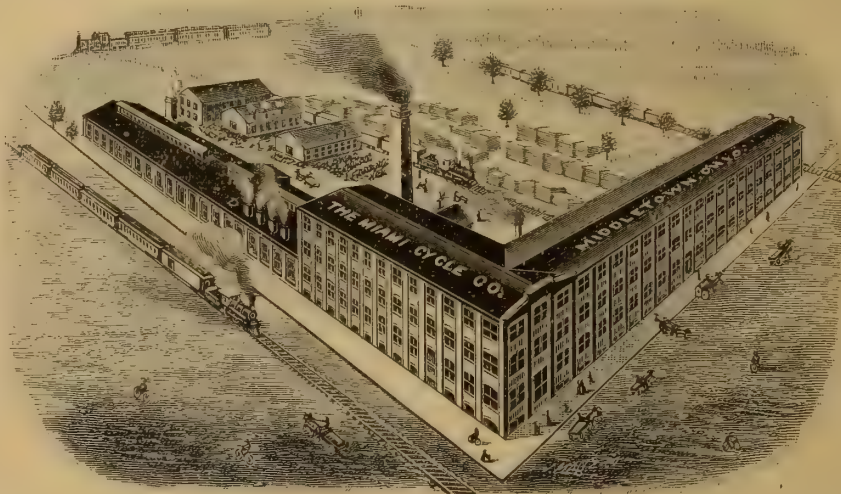
is applied to propel the machine. All had placed their chains and sprockets outside the ball bearings, instead of on the inside or between them. By so doing they had virtually made fulcrums of the balls on one side, with the chain pull as a lever, causing unnecessary pressure and friction on the bearings, at the expense of much wasted energy on the part of the rider. In their aim and ambition to reduce the awkward wide tread of their machines, manufacturers had gradually decreased the distance between the two sets of balls, until some of them nearly touched each other. Indeed, one firm actually put out a machine with but one set of crank bearings in order to advertise "the narrowest tread" wheel on the market. None of them seemed to think it possible to place the bearings in any other place than on the inner side of the sprocket. It is really remarkable that all of the high salaried mechanics in the world, who were employed in the experimental departments of these mighty factories, should have overlooked such a simple, mechanical law. Any of them would instantly have discharged a factory hand, had he thoughtlessly coupled the belting of an ordinary lathe to the overhead shafting, outside the bearings, in the same manner. Yet, they coupled the chain to their bicycles on the outside of the bearings, and do so still. Many of them were unwise enough to try to defend their

error. Let us illustrate this mistake by some every-day illustrations. Every bicycle with the chain pull outside the bearings may be likened to a horse hitched up to the outside of one of the shafts of a buggy. Would it not appear ridiculous? Suppose you attempted to shove a wheelbarrow while standing outside, with both hands on but one of the handles. The very suggestion appears to be absurd, yet it is a parallel comparison with the crank hanger construction of every other bicycle on earth.

After thinking and studying over these points for some time, our engineers, who were both expert draftsmen, began a series of theoretical drawings. They were almost ready to abandon the idea as an impossibility, when one day one of them threw down his pencil in disgust, saying: "I give it up. The only way I can see to get the chain between the bearings is to tie the balls on the ends of the cranks." "Eureka," cried the other as if inspired. "You've struck it; we can make large ends on our cranks, hollow them out, letting the balls roll in the hubs."

With this construction there would be no leverage, but a straight pull on the shaft. Thus, from a simple expression of an exhausted mind, there was impregnated into another's brain a new thought which struck the fire of genius and gave birth to a new bicycle which is destined to dominate the whole cycle trade. They were not long in perfecting their designs after convincing themselves of its feasibility; then they built a working model and secured letters patent from the United States and other Governments to protect their rights.

About this time the P. J. Sorg Tobacco Co., of Middletown, O., were on the lookout for some striking advertising novelty. Hearing of the new bicycle, they sent for the inventors and contracted with them for a stipulated number of wheels to be used as premiums in the sale of plug tobacco. Under the name plate of Miami the first wheels



Birdseye view of the Miami Cycle Company's factory.

were built in the fall of 1895, in the agricultural works of the McSherry Mfg. Co., at Middletown, O.

After sending out 100 or more wheels, the P. J. Sorg Company's mail became flooded with unsolicited testimonials, inquiries and requests for quotations on this new bicycle. Indeed, so great was the demand that a company was incorporated and a large electrical plant was erected for the manufacture and sale of wheels to the trade. It soon became evident that as the construction of its crank hanger differed so materially from that on all other bicycles, that a distinguishing name should be applied to the wheel, so the riding public might in some manner appreciate this difference. As a matter of course it was a bicycle since it had two wheels.

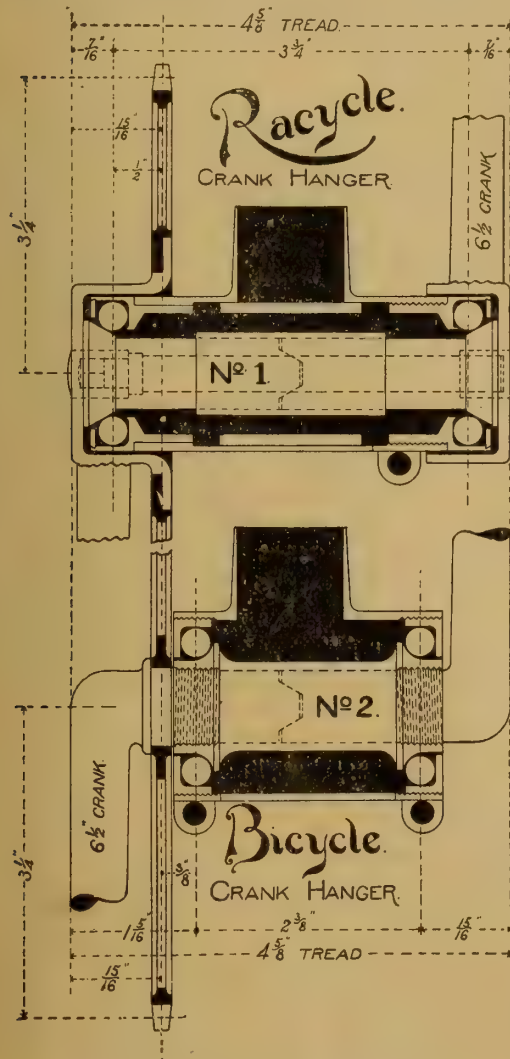
Some one suggested that, as a compliment to F. H. Ray, the president of the company, it would be a good idea to drop the final letter from his name and prefix it to the word, cycle, calling it the Racycle, adding the words, "narrow tread" as the distinguishing feature. This was adopted, although for some time many people labored under the false impression that it was called a Racycle, because it was a racing machine.

From the moment the Racycle was shown at the Chicago cycle show, in the spring of 1896, other manufacturers saw their mistake, and some more dishonorable and possessing greater bank rolls than

honesty, immediately set to work to steal the invention, either openly, by direct infringement on the patents, or stealthily by subterfuge. One prominent manufacturer, in particular, not content with stealing the patented ideas of the inventors, added plagiarism to his own crime by copying the words and illustrations of the Racycle advertisements.

These circumstances are mentioned simply to call attention to the value of the Racycle crank hanger, in the eyes of other cycle manufacturers.

In the spring of 1896, a two-speed or bi-gear attachment was attempted, but after a thorough trial it was abandoned as impractical. Later in the year, after a great deal of experimenting with thorough practical tests, larger sprockets were advocated. No doubt, many will remember the ridicule evoked by the 1897 models exhibited at



Comparative Crank Hanger Problem Solution.

In order to ascertain the exact percentage of advantage that the Racycle crank hanger has over the usual bicycle crank hanger, a prize was offered for the correct solution of the problem given herewith, and either by mail or through the cycling and scientific periodicals, the manufacturers placed the problem before every mechanical engineer on this continent and Europe. Thousands of solutions were submitted, every one of which gave to the Racycle an advantage over all other bicycles ranging from 20 per cent. to 35 per cent. the majority making it 27 per cent.

Stop a moment and think what this means!

In 1897 a prize of \$1,000 in cash was offered to the first one who could refute the accepted solution of the problem, viz., an advantage of from 20 to 30 per cent. saving in pressure on the

the cycle shows of 1897, which were equipped with thirty-tooth front sprockets. A great cry of "freak, freak" was raised. Columns pro and con were written on the subject in the cycle journals, but before the season was over, all were compelled to adopt this "freak" feature, for the public realized that the seventeen-tooth sprockets not only looked badly, but run harder than when equipped with a larger sprocket. To-day a seventeen-tooth sprocket would elicit as much ridicule as the thirty-tooth sprocket did at the 1897 cycle shows.

Racycle crank bearings over those of any other bicycle. Yet, not one of the many manufacturers, experts, employes or cycle dealers ventured an attempt to refute it. Strange! for thousand-dollar bills are not easily picked up in these days.

At the beginning of the 1898 season a bid was made for Canadian business. In three short months they were compelled to open a Canadian branch at Toronto, Ont., which is under the management of W. E. Houghton, to meet the demand for Racycles in Canada. By the end of the 1898 season this branch developed into an assembling factory, and, while all the machine parts are imported from the head factory at Middletown, O., the wheels are completed with standard Canadian equipments. A large stock is always on hand, and no Racycle dealer will have any delay in securing wheels or parts, nor any bother with duty, as all goods are quoted f.o.b. Toronto.

At the end of the 1898 season, to meet the advancing demands for 1899 goods, it became necessary to double the capacity of the Racycle factory, for on Christmas day it was found that there had been exactly twelve times the number of orders submitted for 1899 samples as there were for 1898 models by the same day the preceding year.

The lines and angles of the Racycle were changed with a view to strengthening the frame, as well as for symmetry of appearance.

The heads of models R and S are tapered from $1\frac{5}{8}$ inches at the crown to $1\frac{3}{8}$ inches at the top, to give these models a graceful individuality. No other bicycle has this feature. The tubing is larger, $1\frac{1}{4}$ -inch flush joints being used instead of the $1\frac{3}{8}$ -inch lap joints of the preceding years. While longer wheel bases are demanded by the public on roadsters, the double arched, close coupled rear forks on the racing model C have been retained.

The Peacemaker with a forty-tooth front sprocket has been so changed and strengthened from the 1898 Peacemaker model that were it not for the size of the sprocket it would be hardly recognized.

All changes are illustrated in the 1899 catalogue. It is the aim of the Racycle to keep ahead of all other bicycles; to lead and let others follow; not to adopt some feature simply because some other factory has it on their machine. It is an impossibility to please everybody, therefore the equipments have been carefully selected with a view to suiting the general demands of the trade.

The bicycle business is gradually going down to the survival of the fittest. Water must seek its level. Already the paths of the cycle industry are lined with the tombstones of those who started out with flying colors, but had to succumb to the inevitable.

The manufacture and the selling of bicycles is not unlike that of any other commodity. The factory that profits by the experience of others is bound to succeed, while the dealer who uses his good judgment and applies it to the changing conditions of the times will win. Some dealers stick to the same old lines year after year, refusing to change or even look at samples of an improved machine, and trust to luck, but it will be the progressive hustlers who will be the most successful in the end.

It is strange that any dealer or rider should be so blind to his own interest as to adopt a wheel simply on account of its finish, its color, its saddle, its tubing, its lines, or some minor point, that in no manner affects its running qualities. The chief feature in the purchase of a wheel should be its mechanism. Think of the amount of unnecessary labor and energy expended in cycling, on account of a name plate, a seat post, or the finish!

The man who rides the Racycle has the satisfaction of knowing that he is astride of the only wheel on earth that is constructed on mechanically correct principles. He knows he saves strength. He knows that cycling with him is a pleasure, not work. He knows that it will stand up with him, and feels satisfied that he made a good bargain when he bought his machine.

HARDWARE ADVERTISING.*

By G. M. Evenson.

I WONDER if I will bring down upon my head the wrath of my fellow hardwaremen when I make the assertion that, generally speaking, hardwaremen are the poorest of advertisers of any class of merchants.

I don't know why this is so, but out of twenty-five newspapers that I examined in our local paper's office, I found twenty of the hardwaremen advertised something after the following fashion: "John Smith, dealer in hardware, stoves and tinware, largest stock and lowest prices, etc." In one paper I found a firm advertising baseball goods in January. Some merchants do not change their advertisements until the printer finds that the face of his type is being ruined with constant use and demands new copy. Others leave the composition of their advertisement to the good or bad judgment of the editor. Their excuse for so doing is that they cannot write a good advertisement. I take exceptions to any salesman making that statement. Show me a man that is a good salesman, and I'll show you a man who can write a good advertisement.

I've seen merchants make statements in their advertisements that anybody knows are not true; in fact, some of the assertions border on the impossible, and this merchant is one of the first to exclaim that advertising does not pay.

The great trouble with most business men is that their lives are so void of poetry that they cannot produce a classical copy and think none other will do. A good advertisement does not necessarily need to be a literary gem. One does not need to indulge in a lot of flowery language to write an advertisement that will bring business to his door.

But what is a good advertisement? you will say. A plain statement, forcibly told; void of all technical expressions and terms; truthful to a line and pointed enough so that anybody can see the meat of your advertisement at a glance.

THE IDEAL

Don't set your ideal of a good advertisement too high to start with, and if you cannot realize your ideal, idealize your real. Don't use sensational headlines, leave that to the patent medicine man, and never make a statement in your headline that does not explain itself. When I was down to the last meeting of this association, I dropped into a friend's place of business, and he showed me a copy of an advertisement of a

new washing machine that he was about to send to the printer. The headline ran something like this: "I Love to See My Poor Old Mother Wash," and then he went on to say that the man who made that remark had very little principle about him, and it would have shown far more consideration for his mother's welfare if he had purchased for her a Bonanza Washer, that washing became a positive pleasure with these machines. He asked my opinion of the copy. I remarked that if it would increase the sale of the machines it was not written in vain, but that I thought it could be improved so that it would make a more favorable impression and still use the same words that were at present in the copy. I suggested to him that he use the words "Washing Becomes a Pleasure," for his heading. With his heading he conveyed an impression that he did not mean, and he used a quarter of his space in explaining to the readers what he did mean. Then why not say what you mean at once, and be done with it, and use the space you have occupied in explaining your opening remarks in telling the advantages of your washer.

If a man came into your store to buy a stove, you would not start in by making some statement exactly the opposite to what you mean, and then spend 10 minutes in trying to remove the impression your opening remarks made. You would show him the talking points of your stove, and call his attention to its advantages. If you are successful, it will be a fair indication that your talk interested him and that he believed your statement. Then go right back to your desk and write your next week's advertisement, and let the meat of it be just what you told your last customer, and I promise you that that advertisement will bear fruit.

DESULTORY ADVERTISING.

Desultory advertising never has paid and never will pay. "Keeping everlastingly at it" brings success. Advertise during the busy season because you are busy, and during the dull season because you want to be busy. Contract for a certain space in your local paper, be it big or little, and change your advertisement as often as the paper is published. Use cuts whenever you can. There is nothing that gives more tone to an advertisement than a good clean cut. Most manufacturers will gladly supply them, and all it will cost you is a post card. The publication of prices in advertisements has always called forth a great deal of discussion in trade papers whenever it has been mentioned. I am totally committed to the using of prices in advertisements. Some

merchants argue that by quoting prices they give their competitors tips; that is so—you do; but you are first on the field, and the people know that you are selling a steel trap for 15c. because you have advertised that price, and they don't know that the other fellow is doing likewise because he has not said so.

If you would satisfy yourself that the advertisement that contains prices is the more interesting, just pick up a newspaper and notice which advertisement first attracts your attention, and if the one with prices does, you are safe in presuming that you are like other people, and that they would also be more interested in the priced advertisement.

PROMISES IN ADVERTISEMENTS.

No matter how large the space, or how well the advertisement is prepared, if you fail to carry out every promise made, the advertisement will do you more harm than good. You must teach the people to have absolute confidence in every statement. Don't generalize. Be specific. Don't try to advertise a dozen articles in a space 4x4. The statement that your line of stoves is the best on earth is a mere assertion—anybody can make it. If you say that they are the best, don't neglect to tell why.

The purchasing public of to-day is a reasoning public, and they soon learn to discredit every statement of the man who continually makes startling assertions without showing that he has a right to do so.

I believe it is good advertising to make a leader out of some popular article. I know that plan is discouraged by the old school, but "in Rome one must do as Romans do." The plan is popular with the people, and they are the ones whose favor you want to gain.

If you want to test the relative value of an advertisement that contains a cut of a stove and one that contains a trade mark, I would ask you to again turn to a page in a paper that has both advertisements upon it; you are about to purchase a stove and are naturally interested in stove advertisements. Which will first catch your eye? Will the trade mark? Hardly. The cut of the stove will, and, if an entertaining description follows and an interesting price is attached, you will look no farther, but will seek out the firm whose name appears at the bottom, and ten chances to one he will sell you a stove.

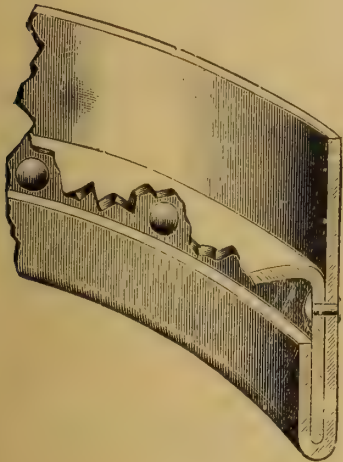
Suppose you have been continually advertising a manufacturer's trade mark, there comes a day when you and he have some differences of opinion, and you throw up the agency or he takes it away from you, who gets the benefit of your trade mark advertising? Demand cuts of stoves to use in your advertisements, and, if the manufac-

* Paper read before the Minnesota Retail Hardware Dealers' Association, St. Paul.

Milk Can Trimmings

DAVIDSON'S PATENT MILK CAN BOTTOM

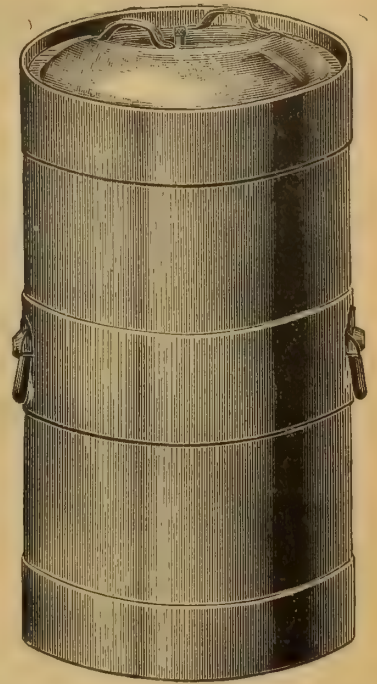
The reason is very simple, as will readily be seen by cut showing a section
The Hoop is folded inside in such a way that the bottom fits snugly into it, leaving no space for dirty water to corrode, making the bottom practically in **one piece**.



No inside hoop required to make up weight, or to cover a scant edge of bottom.

As nothing but the very best quality of Siemen's Steel can be used in making these hoops, we guarantee that the grain is not broken in bending.

All our Bottom Hoops are made full width, 4 in., same as Top Hoops.



The Thos. Davidson Mfg. Co., Limited
MONTREAL.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

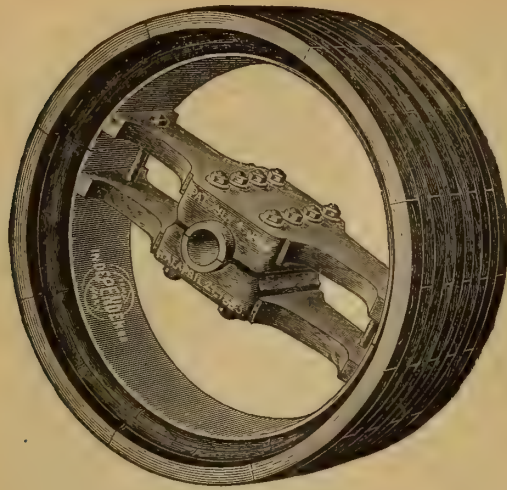
Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their local mills and factories. Special discounts to the trade. Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

turer wants his trade mark in your local paper, let him pay for it.

SIGNS.

Next to newspaper advertising, I consider signs, painting on fences and sides of buildings, to be most effective. Every box that comes into our store is taken apart with a nail-puller, and the boards made into a signboard. The roustabout gives them a coat of white paint, and, whenever we have a dull day in the store, I put in my time painting advertisements upon them.

When spring comes, we have from 100 to 200 substantial signboards to tack upon all roads leading into the city. If a farmer is coming to town to buy a stove, and, just before he reaches the outskirts of that city, he is confronted with a sign advising him to go to So-and-So and see their \$35 steel ranges, and he has seen similar signs the past two miles he has traveled, the merchant so advertised is pretty sure to receive a call from that farmer.

I do not believe in programme or hotel register advertisements. People do not go to places of amusement to read advertisements, and the traveling public care very little about your new stock of ice cream freezers.

Don't expect an advertisement to actually sell your goods. If it brings people into your store, that is all you have a right to expect of it. Once they are inside, the advertisement has done its work, and done it well; your stock of goods and your salesman should be held responsible if you fail to satisfy the caller.

SHOW WINDOWS.

The show-window of a great many hardware stores is the dumping-ground for odds and ends of all kinds, when it ought to be given more attention than any other part of the store. I say more attention, because I believe in every man putting his best foot forward.

You would not think of presenting a

person with one of your business cards that was dirty and soiled, and yet, that is just what you do if you do not keep your show-window attractively decorated and the glass free from dust and fly specks.

You pay for the space in your window when you pay your rent, and it will be a business-getting advertisement if you use it properly. To prove the correctness of this statement, if you have not already found it out, I'll ask you to decorate one of your windows when you get home. Make a display of nickel goods by covering some boards with black cotton flannel; put tastefully-printed price cards alongside of each article displayed. Then stand where you can watch the passer-by, and you will be surprised and pleased to see how many will stop for a second look, and some will come in and buy who would otherwise have passed on.

In closing, I want to ask you to remember that your advertisement, like the wood in the grate, will not give forth a cheerful light unless it is flamed by your own cordial greeting. Learn to judge nature and to know how to appeal to people, and advertise—always.

A SMELTER FOR BELLEVILLE.

According to a notice in The Ontario Gazette, a charter has been granted to a company purposing to establish smelting works in Belleville. It is to be known as The Abbott-Mitchell Iron and Steel Company of Ontario, Limited, and the names of the applicants for the charter are F. A. Mitchell, foundryman; John Mitchell, gentleman, and Chas. Bard, banker, all of Norwich, Conn.; Henry Pringle, manufacturer, and Samuel Lazier, gentleman, of Belleville; and Wm. Abbott, manufacturer, Montreal. The purpose of the company is stated to be to manufacture iron and steel rails, and all kinds and classes of muck, bar and refined rolled bar iron, pig iron

and puddled bars, bessemer and other kinds and descriptions of steel. To this end, they ask, among other things, to be allowed to explore for iron, copper, nickel and other minerals, to erect mills, to manufacture coke, to construct tramways, and to acquire, build or lease steam and other vessels, wharves, telegraph and telephone lines, aqueducts, dams, water-power, etc. The provisional directors will be the gentlemen above mentioned.

THE POWER OF KNOWLEDGE.

The Wheel prints the following good story that will be appreciated by hardware dealers and clerks just at this season:

The ship had lain becalmed in a tropic sea for three days. Not a breath of air stirred the mirror-like surface of the sea or the limp sails that hung from the yards like drapery carved in stone.

The captain resolved to wait no longer. He piped up all hands on deck and requested the passengers to also come forward.

"I must ask all of you," he said, "to give me every match you have."

Wonderingly, the passengers and crew obeyed.

The captain carefully arranged the matches in his hands as each man handed him his store until all had been collected.

Then he threw them all overboard but one. Going below he returned with a bicycle lamp, and striking the solitary match on the mainmast, endeavored to light it.

In an instant a furious gale swept over the deck, extinguished the match and filled the sails, and the good ship Mary Ann sped through the dashing waves on her course.

And the passengers all wondered that this infallible method of raising the wind had not been before thought of.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, $1\frac{1}{2}$ to 3 inches. Price \$1.00 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, $1\frac{1}{2}$ to $2\frac{3}{4}$ inches. Price \$1.25 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, - Saint John, N. B., Canada.

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING
GOOD LUCK FIBRE
2 and 3 PLY READ ROOFING**
— DEALERS IN —
COAL TAR, ROOFING PITCH, ETC.

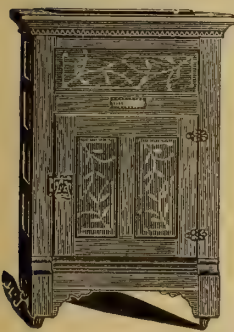
Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited
BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

Fishing Tackle.



ALLCOCK'S STAG BRAND



TRADE MARK

The Allcock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS.

Send for Booklet.

The Brush Your Painters Want

is the brush you want to sell, otherwise you create distrust in the mind of the painter at once. It pays to be prepared to answer questions, not with something "just as good," but with the article itself.

Boeckhs' Patent Bridled Brush shows its strong points to painters at a glance—when a painter sees a brother painter using one, that's enough. Supposing he comes to your store and asks for the brush—you are you going to parry the question?

Think of your competitor just across the street. Enough said.

Boeckhs' Bridled Brush.

Boeckh Bros. & Company, Mfrs.
Toronto, Ont.

Montreal Branch, 1 and 3 DeBresoles St.

Agencies at Winnipeg, Vancouver,
Halifax, Glasgow.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Feb. 17, 1899.

HARDWARE.

THE advancing tendency in general hardware values continues, the appreciation on the lines already noted being maintained, while advances are noted this week on wire of various sorts, tacks and wire nails, all of which are very firm, and still point upward. Naturally, the rising tendency of the market has led to more inquiry, but jobbers are operating carefully in all lines in which appreciation is probable. In general American hardware and tools, values, as already noted, show advance, jobbers here, as noted specially elsewhere, being notified of withdrawal of quotations on important lines of the latter, notably axes.

BARBED WIRE—The firm disposition is marked, though demand does not exhibit the activity that one would expect when prices all round show a higher tendency. The base price here is stiffly held at \$2.30 f.o.b. Staples are quoted at \$2.55 for galvanized and \$2.25 for bright, per 100 lb.

PLAIN WIRE—All kinds of wire are firm in tone, and, in addition to the changes on galvanized fencing, bright and annealed wire is also sold at a net price f.o.b. here on a basis of \$1.85 for Nos. 2 and 9, with smaller sizes net extras on the base price, the same applying on coppered, galvanized and tinned.

GALVANIZED FENCING WIRE—Is held firm, the base price being \$2.70 per 100 lb. on No. 8.

BRASS AND COPPER WIRE—Firmly held, as follows: Brass wire, Nos. 3-10, 18½c.; 11-16, 19c.; 17-18, 19½c.; 19-20, 20c.; 21, 21c.; 22, 22c.; 23, 23c.; 24, 24c.; 25, 26c. Copper wire, Nos. 0-10, 22c.; 11-16, 23c.; 17-18, 25½c.; 19-20, 26½c.; 21, 27½c.; 22, 28c.; 23, 29c.; 24, 30c.; 25, 32c. Extras, net: 1-lb. rings, 1c. per lb.; ½ and ¼-lb. rings, 2c. per lb.; 1 and 2-oz. rings, 4c. per lb.; brass spring, 2c. per lb. Extra for tinning, net: Nos. 8 and heavier, 2c. per lb.; 9 to 12, 2½c. per lb.; 13 to 14, 2¾c. per lb.; 15 to 17, 3c. per lb.; 18 to 19, 4c. per lb.; 20 to 24, 5c. per lb.

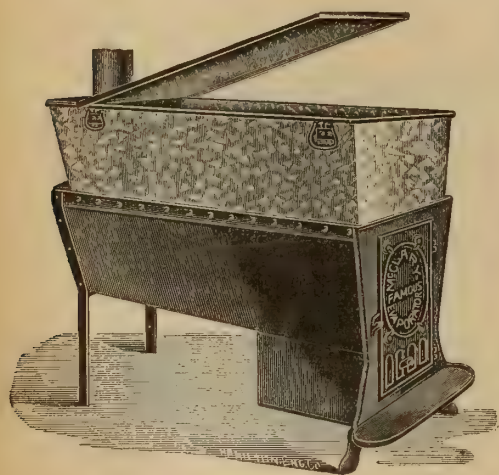
WIRE NAILS—There has been another advance in these of 5 to 10c. per keg, as a result of the strength in the States. The f.o.b. price in Montreal this week is \$1.95 in small lots and \$1.90 in car lots, and jobbers are not disposed to contract far ahead at the rise, as they look for further appreciation.

CUT NAILS—Demand for these, both for prompt and forward delivery has been better for this line. Values are unchanged, the base price being \$1.75 f.o.b. Montreal.

HORSE NAILS—A fair inquiry is noted, and prices are steady at 50 per cent. on Standard and 50 and 20 on Acadia brand.

HORSESHOES—Business in these is of a quiet character. We quote as follows: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—There is a good inquiry for these. Discounts are: Flat head bright, 85 and 5; round head do., 77 and 5; flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass,



FAMOUS EVAPORATOR OR... Feed Boiler.

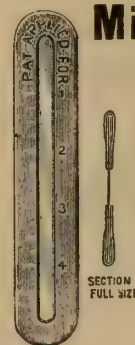
**CAN ALSO BE USED FOR MAKING SAP.
BEING LIGHT, CAN READILY BE
CARRIED INTO THE BUSH.**

Boiler made of galvanized iron with tight seams, galvanized cover. Fire box has cast iron grates and linings, with steel flues, so protected as to prevent warping. Heat passes over the entire bottom of boiler.

MILK CAN and DAIRY TRIMMINGS

Milk Can Trimmings Creamery Can Trimmings

A full stock of tinned sheets for milk cans and cheese vats always on hand at lowest market prices.



Mica Creamery Gauge Patented

Cannot Leak
Cannot Break.

For prompt shipment
order from McClary's.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



Another difference is: with Apollo galvanized iron, you save a good deal of labor and wages; it works so easily.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

flat head, discount 25 per cent.; round head, 20 per cent.

BOLTS—The same remarks apply in the case of these. Discounts are: Carriage bolts, $\frac{1}{4}$ to 5-16, 70 per cent.; $\frac{3}{8}$ and up, 60 and 10; machine bolts, $\frac{1}{4}$ and 5-16, 70 per cent.; and $\frac{3}{8}$ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—In fair demand at the advance, black and tinned 65 per cent., and copper rivets 37 1/2 per cent.

CORDAGE—There has been no change in cordage. We quote as follows: Sisal, 9 1/4 to 9 3/4 c. for 7-16 and upwards, and manila, 10 1/4 to 10 3/4 c.; smaller sizes, 1c. advance on these figures.

GREEN WIRE CLOTH—The firm tendency on this article is restored, and inquiry for forward account is quite brisk.

HINGES—Rule steady. We quote: 6 to 12 in., \$3.50 per 100 lb.; 14 inch, \$2.50; screen door, \$6.50 per gross, and T and strap, 70 and 10 per cent. off the list.

SHOT—Firm at the rise, ordinary 6c., and double chilled 6 1/2 c.

CUTLERY—A fair inquiry is noted for sorting lots.

CEMENT—The market rules quiet. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Unchanged at \$18.50 to \$24 per 1,000, as to brand.

METALS.

The strength in heavy iron and metals continues, as a result of further appreciation in cost. Jobbers here have been compelled to advance their prices on galvanized, Canada plate, antimony, terne plates, Swedish iron, while tinplate, though not quotably changed, is liable to advance at any moment, and strength is also generally characteristic of all other leading lines of material.

PIG IRON—The firm disposition of pig iron continues, and both Scotch and domestic brands are stiffly held. We quote Scotch pig at \$18.25 to \$19.50 for Summerlee and equal brands. No. 1 Hamilton, \$15.50 to \$16, and Ferrona, \$15.50 to \$16.

BAR IRON—In good request, with prices steady at \$1.45.

HOOPS—Firmly held at \$2.

SHEET IRON—Inquiry fair and prices steady. English advices are stiff. We quote: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Steady and unchanged. We quote: 10 to 16, \$2.50; 18 to 20, \$2.30; 22 to 24, \$2.45; 26, \$2.55; and 28, \$2.80.

GALVANIZED IRON—Stocks are in small compass here, and prices firm at last week's rise. We quote: No. 28 "Queen's Head," \$4.25 to \$4.50, and "Comet" brand, \$4 to \$4.25.

Sheet Iron and Steel

Ordinary or "Dead Flat"
Cold Rolled or Pickled
Bright Finish Strip Steel
Imitation Russia Sheets

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

INGOT COPPER—With the steady appreciation, outside prices on spot have scored another advance, and now 18½ to 19c. is the range here with few sellers at the inside figure.

SHEET COPPER—This line is firm at the advance quoted, viz., 25c. for plain and 27c. for tinned copper sheets.

INGOT TIN—There is very little Lamb and Flag here, and Straits tin is very firmly held at 27c.

PIG LEAD—Unchanged as last quoted at \$4.25.

IRON PIPE—Firmly held, with inquiry better. We quote: Black pipe, ¼-inch, ¾-inch, and 1-inch, \$2.35; ¾-inch, \$2.80; 1-inch, \$3.85; 1¼-inch, \$5; 1½-inch, \$6.70, and 2-inch, \$9. Galvanized, ½-inch, \$3.95; ¾-inch, \$4.80; 1-inch, \$6.65; 1¼-inch, \$9.15; 1½-inch, \$11.75, and 2-inch, \$16.

LEAD PIPE—In fair demand since the rise. We quote: Ordinary 7c., and composition waste 7½c., with discounts 17½ per cent.

CANADA PLATE—The firm disposition on Canada plate is likely to lead to higher prices in the near future, while galvanized Canada plate has been marked up this week 15c. to \$4. We quote: 52's, \$2.20; 60's \$2.30; 75's, \$2.40; full polished, \$3.10; galvanized Canada plate, \$4.00 for 52's.

TINPLATES—While not quotably changed an advance is quite probable before long. We quote: Coke, I.C., \$3.15; charcoal, I.C., Allaway or Comet brands, \$3.50; do, I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I.X., \$5; Bradley's, \$5.80.

TERNE PLATE—Jobbers here have advanced prices on terne plate from 25 to 50c., and now quote the base firm at \$6.50.

COIL CHAIN—Unchanged. We quote: ¼-inch, \$4.75 5-16, \$3.50; ¾, \$3.15; 7-16, \$3; ½-inch, \$2.80 and ¾ up, \$2.80.

SHEET ZINC—Firmly held at 7 to 7½c.

SOLDER—Stiff at last week's rise, 15½c.

ANTIMONY—Prices are higher, no cask lots being obtainable under 10c., while smaller lots are quoted at 11c.

SPELTER—Continues to advance, jobbers marking up prices 25c. per ton, to \$6.75 for V.M. and \$6.50 for S.S.

GLASS.

Window glass continues firm, but unchanged. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The volume of business in all kinds of mixed paints, varnishes and oils is steadily

increasing. Turpentine and linseed oil—in fact, all materials having a bearing on the value of finished material—are very strong at primary points, and, though there is no change on spot, except in turpentine, which is 3c. higher, other prices may advance very shortly. White and red lead are firm at the rise last quoted.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$5 in casks; kegs, \$5.25.

RED LEAD—Firm; casks, \$4.90.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

PETROLEUM.

There is no change in petroleum. We quote as follows: "Crown Acme," 15½c., Canadian refined, 14½c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, 19½c.

ASHES.

Unchanged, as follows: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Quiet and steady. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Antimony has been marked up ½ to 1c. here.

The price of turpentine has advanced here 3c. to 68c.

Galvanized Canada plates are 25c. per box higher.

Spelter is from 25 to 50c. higher than it was last week.

The inside price on ingot copper in this market is ¼c. per lb. higher, and with few sellers, the majority asking 1c. rise.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



Force Lift Cistern Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDUGALL CO., Limited

Galt, Canada.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"VICTOR" BICYCLE LAMP

Burns Acetylene Gas.

BRIGHT LIGHT,
HANDSOME DESIGN,
PERFECT IN CONSTRUCTION,
LIGHT WEIGHT.

Burns longest time and consumes smallest amount of
carbide, and is harmless, and easily operated.
Best of all, the cheapest lamp in the market.

Manufactured by

The Ontario Lantern Co.

HAMILTON, ONT.

WALTER GROSE, MONTREAL.

Write for prices.

Sole Selling Agent.

ONTARIO MARKETS.

TORONTO, Feb. 17, 1899.

HARDWARE.

THE wholesale hardware business in Toronto continues in a satisfactory condition. There is a good business being done, and the general tendency of prices continues upwards. Orders for spring goods, such as screen windows, spades and shovels, churns, wringers, ice cream freezers, washing machines, and other lines, are being freely booked. The demand for spring goods is probably better than usual on account of the upward tendency of prices. There has been a further advance of 15 to 20c. per 100 lb. in the price of barbed wire. The drawers of wire have compiled a new list, and will hereafter sell at a base price, the same as they now do nails. Wire nails are higher, and \$2.10 to \$2.15 now represents the ruling figure. Cut nails are in fair demand. Horse nails are quiet. So are horseshoes. There is a good business being done in screws, and in tire bolts and stove bolts a nice business is being experienced. Cutlery is meeting with a fair sale. Enameled ware and tinware are in fair request for future delivery.

BARBED WIRE—Prices are higher in both Canada and the United States. The Canadian makers now quote four point and two point barbed wire at \$2.30 per 100 lb.; safety barbed wire, \$2.40; plain twisted, \$2.30. Staples are unchanged at \$2.50 per 100 lb. for galvanized, and \$2.25 for bright. The price f.o.b. Pittsburg and Cleveland is \$2.15 for single car load buyers.

WIRE—The drawers of wire have compiled a list whereby hereafter they will sell at a base price, the same as nails are now sold. The list is based upon that already in vogue in the United States. The base price is fixed for the present at \$2 f.o.b. Montreal and Hamilton, but, owing to the strong condition of the outside markets, this figure may be advanced at any moment. The list of extras is printed in another column.

WIRE NAILS—There has been a further appreciation in the price of wire nails, and \$2.10 to \$2.15 now represents the price to retailers, f.o.b. Toronto. The market is decidedly strong, and prices are almost certain to go higher. There has been another advance in the United States, and \$1.65 f.o.b. Pittsburg or Cleveland is now the base price. This, with the Canadian duty added, is equal to \$2.25 per keg base.

CUT NAILS—The demand for cut nails is fairly good. The high price for wire nails is still influencing the sale of these. We quote \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—Business in this line is

THEY'RE LIGHTNING PROOF!

That is one reason why they sell well.

Roofs covered with

EASTLAKE STEEL SHINGLES

are absolutely safe from any damage by lightning.

In addition, these shingles are more quickly and easily laid than others, because of their special patent side lock—they can't leak, can't rust, can't burn—and are the most durably, economical shingle made.

If you haven't them in stock, send for our catalogue and price list—it pays to handle them.



METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

just fair. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—There is not a great deal doing in these. Prices are as before. We quote as follows: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—Both manufacturers and jobbers are doing a good business in screws. We quote discounts as follows: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

BOLTS—A good business is being done, particularly in tire bolts. Carriage and stove bolts are in fair demand. Manufacturers are now maintaining prices more regularly than formerly. We quote as follows: Common carriage bolts, 5-16 inch, 70 per cent.; ditto, ¾ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 5-16 and under, 70 per cent.; do., ¾ and larger, 65 and 10 per cent.; coach screws, 75 and 10 per cent.; blank bolts, 60 and 10 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, all sizes, 4¼c.; hexagon, 5¼c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—A fairly steady trade is being done in these. We quote: Carriage section, wagon box rivets, etc.,

(steel) 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The market continues quiet. We quote: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Quite a few orders for future delivery are being booked. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

WRINGERS—In this line, as well as in churns, there is a good business being done for future delivery.

ICE CREAM FREEZERS—The jobbers are booking orders freely for ice cream freezers, and during the past week some shipments have been taken into stock by the jobbers. It is significant that some of these shipments arrived upon the very coldest days we had this winter.

BUILDING PAPER—Trade is dull. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—Orders are still being booked for future delivery at firm prices. We quote \$1.20 per 100 square feet.

SCREEN DOOR HINGES—The manufac-

turers of spring door hinges have fixed the price at which jobbers shall sell their product. They will not now permit these hinges to be sold at less than \$8.40 per gross. They have, heretofore, been selling, in some instances, as low as \$7.75 per gross.

MECHANICS' TOOLS—A fairly good business is being done in this line at steady prices.

POULTRY NETTING—A good many orders have been booked for future delivery, and prices are about 5 per cent. higher than they were, the discount now being 50 and 5 per cent. instead of 50 and 10 per cent.

COPPER AND BRASS WIRE—There has been a further advance of 5 per cent in this line.

CUTLERY—The demand is good. Orders are coming in chiefly, at the moment, from distant parts of the Dominion, such as British Columbia, Manitoba and the Maritime Provinces.

COPPER BULL RINGS—The manufacturers of this line have advanced their prices 25c. per doz., jobbers now quoting \$1.50 per doz. for 2½ inch and \$2 per doz. for 3 inch.

METALS.

The pig iron market continues strong. Tin is still noted for its irregularity. Copper remains strong. Lead is somewhat irregular, but spelter is firm. Antimony has still an upward tendency.

PIG IRON—The market continues strong, with an upward tendency.

BAR IRON—Is in fairly good demand, at \$1.45 from stock and \$1.35 from factory.

BLACK IRON—There is not a great deal doing, and prices are steady. We quote: 28 gauge, \$2.65 per 100 lb.; 26 gauge, \$2.55; 22 to 24 gauge, \$2.45; 18 to 20 gauge, \$2.55; 16 gauge and heavier, \$2.75.

SHEET STEEL—Business continues moderate at unchanged figures. We quote: 12 gauge, \$2.25 per 100 lb.; 16 gauge, \$2.40; 18 to 20, \$2.30 to \$2.40; 22 to 24, \$2.30 to \$2.40; 26, \$2.35 to \$2.45; 28 \$2.45 to \$2.55; "Dead Flat," 14 to 16 gauge, \$3.25 per 100 lbs.; 18 to 20, \$3; 22, \$3.10; 24, \$3.50; 26 gauge, \$3.75.

GALVANIZED IRON—The market continues strong and there is a good demand both from stock and for importation. We quote: "Queen's Head," 16 gauge, \$3.75; 18 to 24, \$4; 26 gauge, \$4.25; 28 gauge, \$4.50. American makes, 16 gauge, \$3.50; 18 to 24, \$3.65; 26 gauge, \$3.90; 28 gauge, \$4.25. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. Less than case lots are quoted 25c. per 100 lb. higher than above figures.

COPPER—The copper market still exhibits a great deal of strength, and there is no

indication of a decline. We still quote 17½ to 18c. per lb. for ingot copper. There is a good movement in braziers' and sheet copper at 23 to 23½c. for the latter and 23 to 25c. for the former.

BRASS—There is a good demand for brass at quotations.

PIG TIN—The irregularity noted in this line last week is still in evidence, although the London market closed slightly firmer on Tuesday. Local quotations are unchanged, and there is a fair trade being done. We quote 27½ to 28c. per lb.

PIG LEAD—Prices in this line have also been a little irregular, although there is no change in local quotations. The idea as to price is 4¼c. per lb.

LEAD PIPE—Prices have been well maintained at the recent advance. We quote: Ordinary pipe, 7c., and composition waste, 7½c.; discount 17½ per cent.

IRON PIPE—Trade is fairly good and prices unchanged. We quote as follows: Black pipe, per 100 feet, ¼ to ¾ inch, \$2.30; ½ inch, \$2.30; ¾ inch, \$2.80; 1 inch, \$3.85; 1¼ inch, \$5.15; 1½ inch, \$6.55; 2 inch, \$8.95. Galvanized, ½ inch, \$4.25; ¾ inch, \$5.10; 1 inch, \$6.87; 1¼ inch, \$9.80; 1½ inch \$12.50; 2 inch, \$17.

RANGE BOILERS—Business is still fair. We quote as follows: Galvanized, 30 gals., \$5.50; 35 gal., \$6.50; 40 gal., \$7.50; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

CANADA PLATES—There is very little being done, as is usual at this season. We quote: All-bright, \$3.10; heavy-polished, \$2.60; all-dull, \$2.50.

TINPLATES—There is some demand for tinplates for making up stock. Prices are unchanged.

TINNED IRON—Prices are unchanged at last week's advance. We quote: 30 x 72 (24 gauge) at 6c. per lb.; cut sizes, 5¼c. per lb.

COIL CHAIN—Some of the heavier sizes are beginning to move for logging purposes. We quote: 3-16 in., \$7; ¼ in., \$6.; 5-16 in., \$3.50; ¾ in., \$3.15; 7-16 in., \$2.95; ½ in., \$2.80; ⅝ in., \$2.70; ¾ in., \$2.60.

SHEET ZINC—Prices have again advanced ¼c. per lb., and we now quote 7¼c. for cask lots and 8c. for part casks.

ZINC SPELTER—The market is firm, and advices from New York state that ores are scarce and high. Local prices are higher by ¼c., at 6¾ to 7c. per lb.

SOLDER—There has been no further change, and there is a fair trade being done. We quote cask lots at 7½c., and part casks at 7¾c. per lb.

ANTIMONY—The antimony market continues firm at 11 to 11½c. for Cookson's.

PAINTS AND OILS.

Both town and country buyers are operating with great vim, and orders for spring delivery are wide and liberal. The advance of 25c. per 100 lb. in white lead, noted in our last report, is maintained, and is paid without a murmur, the feeling being that, even at the advance, prices are still on a low scale. Fear with regard to prospective advances in liquid paints and varnishes has caused some uneasiness, and hardware merchants are sending in their specifications with a



We have a proposition to make any dealer. We want every dealer to get this proposition and our catalogue.

We want every dealer to get on our mailing list.

Our Goodrich-Resflex Single Tube tire is the best single tube tire for local reputation. It is a good tire. You pump in once a month.

Our G. & J. Detachable-Goodrich make has no wire in the edges, and

is, therefore, easy to put on. It clinches the rim at the second-groove. Riders will like the G. & J. Detachable because it is easy to attach.

Our G. & J. Detachable is fitted with Goodrich inner tubes. You pump Goodrich inner tubes once a month. We sell Goodrich inner tubes to dealers who are repairmen, or to rider through the dealers.

All our retail sales are made through local dealers.

All our goods are good goods.

All our goods give satisfaction.

Our tires are well advertised. Our sundries advertise themselves.

American Tire Co., Limited,
163 King St. W., Toronto.

rush. Paris green is in good demand. Varnishes and japans are being shipped at rather stiffening rates. Turpentine is firm at an advance of 2c. Linseed oil has gone higher in England, but no change is noted here. Other lines of paints and oils are without change.

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90; ditto, No. 1, in casks of 560 lb., \$4.50; genuine, in kegs of 100 lb., \$5.15; ditto, in kegs of 100 lb., No. 1, \$4.75.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 6½ to 7½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

Prices continue to stiffen. The feeling is now so acute that some houses are withdrawing their quotations on import orders. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

HIDES, SKINS AND WOOL.

HIDES—The market is weak, but no change in prices is noted. We quote cow

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Manufacturers of **POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS.** Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.

hides as follows: No. 1, 8½c.; No. 2, 7½c.; No. 3, 6½c.; cured, 9¼c. Steer hides are worth ½c. more.

CALFSKINS—We quote nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c.

SHEEPSKINS—Lambskins and sheepskins are steady at 90c. to \$1.

WOOL—No change. Fleece is unsteady at 15c., and unwashed easy at 10c.

SEEDS.

There is little doing. Red clover is worth \$3 to \$3.50, and alsike \$2.50 to \$3.75, outside. Little timothy is offered, but for bright, unhulled lots coming forward \$1.60 to \$1.75 is paid. Machine-threshed is quoted at \$1 to \$1.25.

PETROLEUM.

Business is active. Pratt's astral has advanced 1c. We quote at Toronto: Canadian, 13½c.; Sarnia water white, 15c.; American water white, 16½c.; Pratt's astral, 17c., in bulk.

MARKET NOTES.

Turpentine is 2c. per gallon dearer in Toronto.

Poultry netting is 5 per cent. dearer at 50 and 5 per cent.

Copper and brass wire have advanced another 5 per cent.

Wire nails are now quoted at \$2.10 to \$2.15 per keg, base.

The price of screen door hinges has been fixed at \$8.40 per gross.

Zinc sheet and zinc spelter have been advanced another ¼c. per lb.

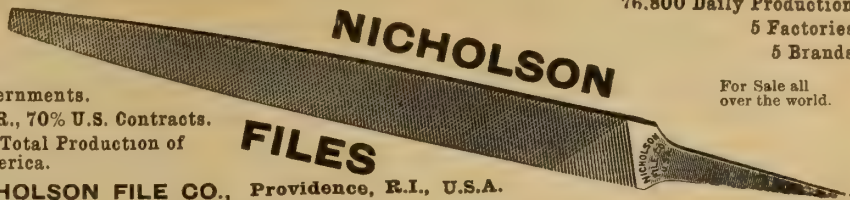
H. S. Howland, Sons & Co. are in receipt of a shipment of "White Mountain" freezers.

Manufacturers of barbed wire in Canada have again marked their prices up, and \$2.30 per 100 lb. f.o.b. Toronto, is now the figure to retailers.

H. S. Howland, Sons & Co. desire to call the attention of the trade to the fact that they are the agents in Canada for the "Schultze" and "E. C." smokeless powders. "The 'Schultze' powder we handle," they say, "is the genuine hard-ground powder, while that made in the United States is not."

76,800 Daily Production.
5 Factories.
5 Brands.

For Sale all over the world.



Established 1773.

SIMPLE TEST OF DRINKING WATER.

Here is a simple test for the presence of sewage in water, according to an exchange: All drinking water should be tested in town or country frequently, as there are other impurities besides sewage which are quite as deadly, and every cistern of water is liable to be a source of blood poisoning. Mice, rats and other pests must have water, and many a case of typhoid is set up by such as these falling into the cistern and remaining there for months in a decomposed state.

To detect this impure condition is very simple and unfailing. Draw a tumbler of water from the tap at night, put a piece of white lump sugar into it and place it on the kitchen mantle-shelf, or anywhere that the temperature will not be under 60 degrees Fahrenheit.

In the morning the water, if pure, will be perfectly clear; if contaminated by sewage or other impurities the water will be milky. This is a simple and safe test well known in chemistry.

PERSONAL MENTION.

Mr. Middlemiss, of Middlemiss & Rankin, Mitchell, Ont. was in Toronto on Thursday, "Trade is quiet, but the roads are good, and we expect things to liven up next month," he said.

THE COST OF DROUGHT.

"What the drought of the last few years has cost New South Wales has been estimated, and the estimate makes up a bit of very doleful arithmetic," says The Westminster Gazette. "The flocks of the colony have shrunk from 66,000,000 to 46,000,000, representing a loss of 20,000,000 sheep. If to this is added the loss of natural increase, the shrinkage amounts to 50,000,000 sheep; enough, that is, to equip a considerable sized colony. In addition, there has been a loss of nearly 300,000 horses and 150,000 cattle. That the colony has been able to survive these terrific losses is a striking proof of energy and resources. Translated into money, the colony has suffered a loss, due to mere inadequate rainfall, of from £12,000,000 to £20,000,000. For so much, when expressed in pounds, shillings and pence, do a few inches more or less of rainfall count! We are probably entering on a cycle of years, a contemporary thinks, when the kindly skies will pour on the far-stretching plains their benediction of rain, and these vast losses will quickly be made up."

A SUCCESSFUL FINANCIAL INSTITUTION.

NORTH AMERICAN LIFE.

THE annual meeting of this company was held in the company's building, Toronto, on Thursday, February 2, 1899, when Mr. John L. Blaikie was appointed chairman and Mr. William McCabe secretary.

The directors' report presented at the meeting showed continued and marked proof of the great progress and solid prosperity of the company in every branch of its business.

Summary of the financial statement and balance sheet for the year ended December 31, 1898:

Cash income.....	\$ 785,130 81
Expenditure (including death claims, endowments, matured investment policies, profits and all other payments to policyholders).....	442,019 07
Assets.....	3,137,828 61
Reserve fund.....	2,586,947 00
Net surplus for policyholders.....	474,029 08
Audited and found correct.	

JAS. CARLYLE, M.D., WM. MCCABE,
Auditor. Managing-Director.

Some of the leading features of the year's business, as mentioned by the president, were the following:

1. Looking at the company from every standpoint, the report submitted shows financial strength, productive assets, solid growth, and large relative surplus, which is the supreme point to policyholders, and it is from this source alone that satisfactory returns can be made to them.

2. The new business for the year exceeded that of any previous year.

3. Another marked feature of this company is the relatively large amount of its net surplus to liabilities, when contrasted with that of its leading competitors. The president showed that this ratio was one of the best tests by which to judge of the relative merits of the different companies.

4. The following marked increases were made during the year:

Per Cent.

In premium income.....	11.56
In interest income.....	13.11
In insurance in force.....	13.15
In assets.....	10.01
In net surplus.....	10.73
In insurance reserve.....	15.18

The president stated that gentlemen representing the United States Insurance Department had been in the city during part of last month, and had made a thorough and most searching investigation into the affairs of the company, with a view to its admission to do business in their respective States, and that those experts were extremely well satisfied with the soundness of the company, and expressed themselves gratified with every aspect of affairs.

The Hon. Mr. Allan, in seconding the adoption of the report, called special attention to the excellent character of the invest-

ments of the company; of these over 37 per cent. are in first mortgage securities, nearly 20 per cent. in debentures, nearly 14 per cent. in stocks and bonds, loans on policies about 6½ per cent., the balance consisting of cash in banks, interest accrued, etc.

He also called special attention to the fact that, although the assets had increased very largely, the outstanding and accrued interest had been very materially decreased, which is a proof of the excellent character of the investments of the company, and the promptness with which the interest thereon has been paid.

James Thorburn, M.D., medical director, presented a full and interesting report of the mortality experience of the company from its organization, which showed that great care had been exercised in the selection of the company's business.

The consulting actuary reported that he had made an independent examination of the affairs of the company as at December 31, 1898, having examined the books, accounts, and balance sheet, also a detailed copy of the annual report to the Insurance Department, and stated that he was very much gratified with the result of such examination, also with the thorough system of the work of every department throughout the office. He commended the company for closing its books promptly at the end of the year, as had been its custom from organization, and stated that, notwithstanding the large amount paid to policyholders during the year, another substantial gain had been made in the net surplus, now amounting to \$474,029 08, or, if made up on the same basis as that generally used, viz., by adding the difference between the cost and market value of debentures, etc., owned by the company, such surplus would be \$522,664.83. He referred to the great difficulty which has been experienced of late years in securing satisfactory investments, and pointed out the great decline in the rate of interest which gilt-edge securities yielded. In view of this, he stated that the settlement of the company's investment policies should be highly satisfactory to the holders thereof, as they compare favorably with those of the leading and best managed companies on the continent.

A special vote of thanks was unanimously tendered to the company's provincial managers, inspectors and agency staff for their splendid work of the past year, during which the largest business ever done by the company had been secured, largely exceeding that of any other home company at the same age in its history.

After the usual vote of thanks had been passed, the election of directors took place, whereupon the newly-elected board met, and Mr. John L. Blaikie was unanimously reelected president, and the honorable G. W. Allan and Sir Frank Smith, vice-presidents.

VISITOR FROM GREENWOOD, B.C.

MR. R. SMAILES, of the firm of Rendell & Co., Greenwood, B.C., has been in Toronto during the last few days. He is in the east in the interest of his firm, and has already visited Montreal.

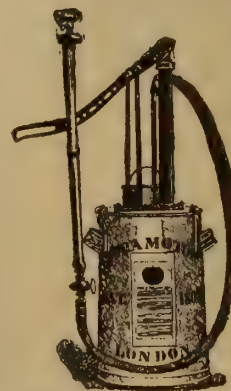
Greenwood is in the Boundary Creek district, which attracted so much attention at the last session of the Dominion Parliament, when C.P.R. influence succeeded in denying a charter to Corbin's proposed road. "But I think," said Mr. Smailes, "that the charter will be obtained at the next session of Parliament." Greenwood is a rapidly growing town. In an air line it is about 50 miles from Rossland and about 150 by road.

"Three years ago when I passed through Greenwood, there was nothing there," explained Mr. Smailes. "To-day there are seven hotels and four under construction when I came out the other day. There are several stores in the town, and the population is about 800."

"Van Horne," continued Mr. Smailes, "says that Greenwood is the centre of the richest gold-mining country in America. One peculiar feature about the mines in our district is this: Every claim in Boundary Creek which has been worked with machinery has improved with depth. And another thing, we have not yet been cursed with wild-cat schemes."

Then Mr. Smailes began to moralize. "I cannot understand," he said, "how merchants in east, merchants who are far-seeing and clever business men, can be trapped into allowing their names to become associated with wild-cat mining schemes. To my mind, they should decline to have anything to do with companies upon whose properties no development whatever had been done."

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.

Spramotor Company,
London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,
W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

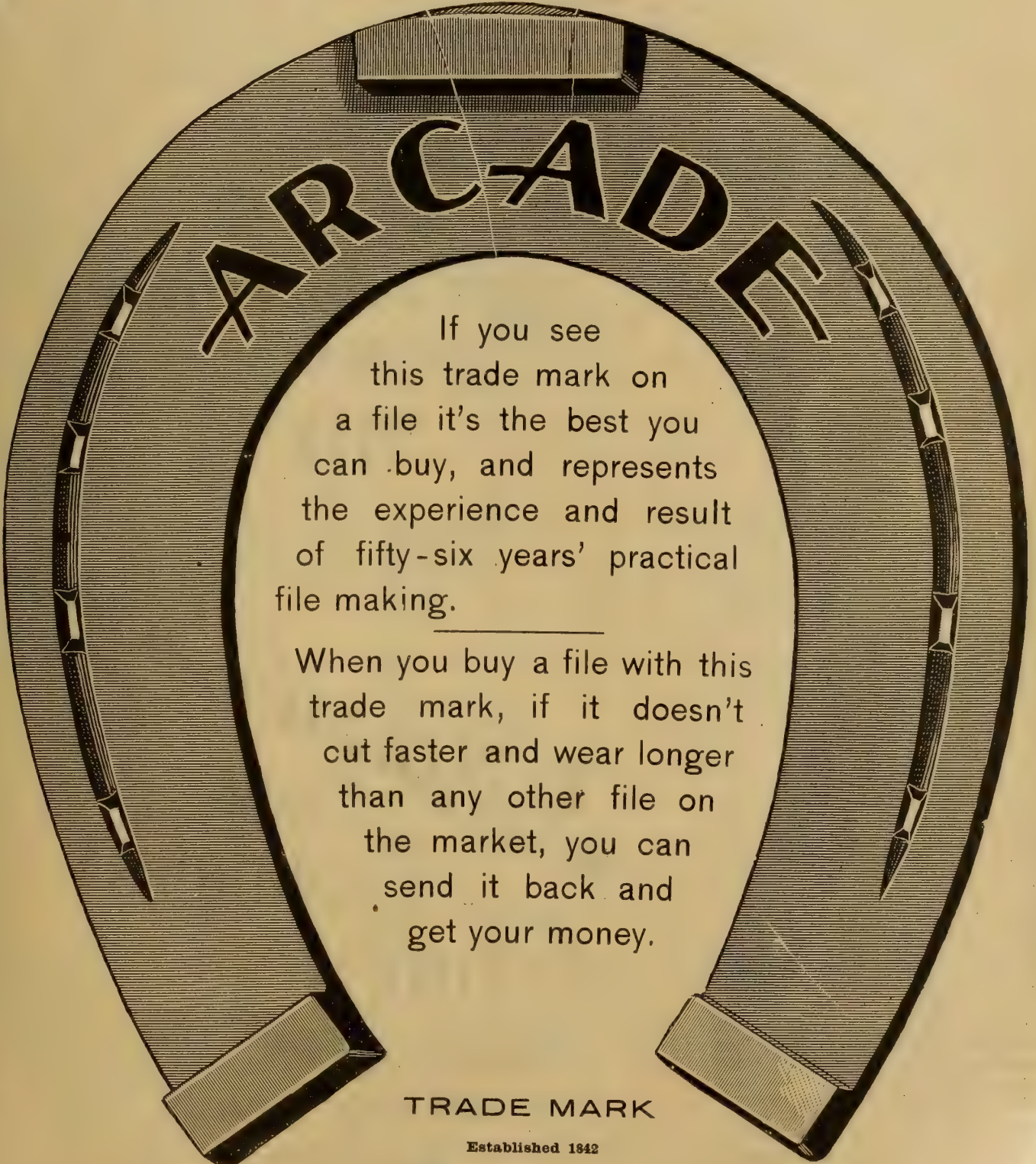
If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.

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We ought to know how.



ARCADE

If you see
this trade mark on
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When you buy a file with this
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ALFRED WEED,
Vice-President and Gen'l Mgr.

FURNACES AT MIDLAND.

An important delegation from Midland, Ont., were in Montreal this week. It consisted of Mayor Milliken, Town Solicitor Finlayson, Messrs. Playfair, Preston, Ruby, Jekyl, Leatherby, Poitoin, Horan, Horral, Murphy, and others. The visit of the delegation to the metropolis was to confer with The Canada Iron Furnace Co., Limited, and perfect arrangements for the erection of a charcoal furnace plant at the town of Midland, Ont.

After the delegation had met Messrs. George and Thomas Drummond, who represented the Furnace Company, a draft of an agreement was drawn up and signed by the parties concerned. All that now remains is for the municipal authorities of Midland to apply to the Legislature for permission to submit the arrangement to the ratepayers for ratification.

As 90 per cent. of the latter have already given their approbation, the establishment of this new and important industry in Midland may be considered as practically accomplished. That the proposed works will be fully up-to-date is a foregone conclusion.

The Canada Iron Furnace Co. are the pioneers of the modern charcoal blast furnace industry in Canada. They have large and important charcoal iron works at Radnor Forges, with auxiliary iron consuming works at Montreal, St. Thomas, Hamilton, etc., and they desire now to erect a furnace at some point in Ontario that will give them cheaper access to the Canadian trade of the west. Mr. Geo. Drummond states that with all their immense facilities now in operation in Canada, they were still compelled to import large quantities of pig iron from the United States in order to obtain necessary mixtures of metal with their present special charcoal iron made at their own Radnor works in Quebec, with which to furnish car wheels to the Intercolonial Railway, the Canadian Pacific, the Grand Trunk, and the Canada Atlantic, and many other railways of Canada. It was the intention of the company to develop Canadian iron mines, and, from the reports that have been received concerning the ore beds of the north shore of Lake Superior, as well as those of the Counties of Hastings, Victoria, and Nipissing district, he felt confident that sufficient supplies could be obtained in due time through which Ontario would be able to supply crude material that they are now compelled to import, and, with that object in view, if the bonus by-law is carried and necessary legislation obtained, they are arranging with the Government Director of Mines, Mr. Archibald Blue, to make a thorough investigation of the existing iron mines at the places indicated above shortly after navigation opens.

The land required for the proposal in question, he said, would not be less than 40 acres to commence with, and must be so located as to afford in the immediate vicinity room for extensions, with a sufficient depth of water to enable large vessels to come

alongside the docks, which they propose to erect. He also stated that the exemption from taxation would not apply on any residences that might be erected on the company's premises, as it was their intention to confine the exemption simply to the works and plant.

REPAIRING STOVES.

When a fellow is little and is abused he has some satisfaction in telling on his persecutor to his mother, but when he gets old enough to work for his living and the boss gets unreasonable he will go a long time before he finds the right place to make his complaint, and I don't know whether it is right or not to complain in *The Metal Worker*; but I do not know that too much is expected of the fellow who goes

out to repair stoves. Now, last week I was sent to put a new grate in a range where, though the woman had five children, she was of the old maid sort and didn't want a particle of dirt made in her kitchen. She did keep it nice and clean, but anyone who has repaired a stove knows that it is a mighty hard job to keep from making a little dust. I have been in the business some time, and in my kit I carry a dust brush, a piece of tin to be used as a dust pan, and a lot of newspapers.

Oscar Larivie, general merchant, St Luce Station, Que., has been burned out; partially insured.

J. R. Fisher, general merchant, Newcastle and Callendar, Ont., has sold his Callendar branch to Robert A. Fisher.

JUST PUBLISHED CATALOGUE

"99"

Bicycle Material.

J. W. Boyd & Son

SUNDRIES TIRES

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CANADA

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should write for a copy.

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Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Gal-
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"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"**

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**

Factory at
Germantown Junction.**B.B. WROUGHT ORNAMENTAL PIPE STRAPS**

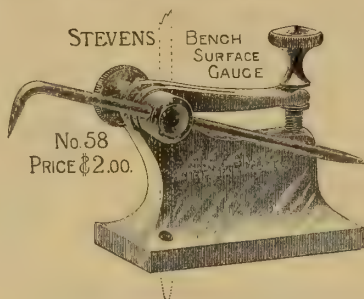
Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnern's Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.**STEVENS ... FINE TOOLS**No. 58
PRICE \$2.00.We make a perfect line
of**CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool
Makers' Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools.
It is also a valuable hand-book of information for mechanics and people
interested in such lines.

J. Stevens Arms & Tool Co.

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Carried by our representatives at Toronto and Montreal.

**Trade
That Sticks!**

Church's
Alabastine grows harder with age, and PERMANENT—the customers
who buy it of you grow to be PERMANENT customers, but time
alone proves that. Our interests are mutual—we both want "trade
that sticks." We get it—so will YOU with that durable, sanitary,
water color wall covering "Church's Alabastine."

It won't decay on the wall—won't rub off—won't peel. Anyone can apply it. Ap-
plied coat over coat—no rubbing or scraping needed. 16 beautiful tints and white.

Church's Alabastine.

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETTDOVERCOURT
TWINE MILLS.1078 BLOOR STREET WEST,
TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.

HEATING AND PLUMBING

MONTREAL PLUMBING BY-LAW.

A LARGE deputation of Montreal plumbers waited upon the health committee on Thursday afternoon to complain that no really earnest attempt is being made to enforce the plumbing by-law.

Mr. J. W. Hughes, who headed the deputation, explained that last year 846 permits to put in drains to houses had been issued by the road department, yet only 246 of these drains and plumbing connections had been inspected by the health department, though the by-law laid down the rule that all such work had to be inspected. Good plumbers had their work inspected, but the poorer workmen dodged the inspection. The section of the by-law specifying that interior drains must be of iron was ignored altogether.

Mr. Dore, the sanitary engineer, replied that his department had no means to keep check of the plumbing work done. A man was sent every day to the building inspector's and city surveyor's offices to copy the permits issued, and all of the work thus located was inspected. But the permits were often issued without addresses being given. The sanitary inspectors were also notified to report all new buildings in course of construction on their rounds.

Mr. Hughes pointed out that the water department was partly to blame. The by-law laid it down that water should not be turned on to a house before a certificate was produced from the health department that the plumbing was correct.

Aldermen Gallery and Mr. Dufresne and Mr. Dore were named a sub-committee to enquire into the best method of enforcing the by-law.

COMBINATION IN THE PLUMBERS' SUPPLY TRADE.

We learn that the movement for a combination of leading manufacturers and jobbers of plumbing supplies is making steady progress, with every prospect of a successful issue. Alexander Euston, of St. Louis, the president of The American Shot and Lead Company, who is the leading spirit of the enterprise, was in New York city lately, and, it is stated, succeeded in coming to an understanding with all the plumbing supply concerns named in our last week's issue. At the present time The Audit Company, of New York, are at work appraising the business of the various concerns interested in this city, with the view of arriving at a valuation of their

plants. Similar steps are being taken in other cities. When this work is completed, the final stages of the consolidation will be entered upon. It is thought likely that the work will have advanced far enough for the consolidation to be effected by the end of the present month, although it will probably take longer than that to get all the concerns in shape to turn over their business to the new company. One leading house states that it would not be possible for them to close up their affairs much before April 1. The name of the new corporation will be The Plumbers' General Supply and Lead Co. We understand that the amount of capitalization has not yet been decided, but it is estimated that it will probably be in the neighborhood of \$40,000,000 to \$60,000,000.—Metal Worker.

NATIONAL ASSOCIATION OF U. S. MASTER PLUMBERS.

The seventeenth annual convention of the National Association of Master Plumbers of the United States will be held in Odd Fellows' Hall, Camp street, between Poydras and Lafayette streets, New Orleans, La., on March 8, 9 and 10, 1899. The opening session will be called to order Wednesday morning, the 8th, at 9 o'clock.

The following amendments have been proposed and are to be discussed:

Amendment to the by-laws, offered by David J. Collins, St. Louis, at the San Antonio convention, and referred to the New Orleans convention, as follows, to be added to Article 3:

"The fiscal year shall end on the first of the month preceding the annual convention."

Amendment offered by Thomas F. Gaynor, New York, to be added to Article 14 of the constitution, as follows:

"But new members joining a local or State association during the six months

ending December 31 of each year shall be liable only for dues to this association for the latter half of such year, and the base of representation to the national convention shall be composed of members of local or State associations in good standing at the close of the fiscal year."

PLUMBING AND HEATING NOTES.

Wm. Howe has sold out his interest in The Greenwood Tinning and Plumbing Co., the business of which will be continued under the style of Caulfield & Lamont.

LAYING PIPES UNDER WATER.

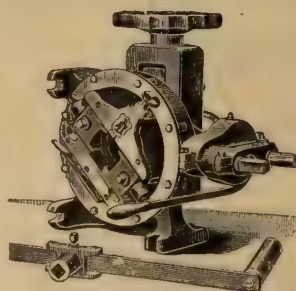
A correspondent of Metal Worker writes that paper as follows: "I notice in The Metal Worker, January 28, that 'D.S.A.' Campbellford, Canada, wants to know how to put a 12-inch pipe under water. It ought to be cold enough up there to make ice thick enough to hold the pipe. If so, he can string out his pipe on the ice and calk it all together 300 feet or more, put on his elbow and pipe enough to extend down the flume a little way. Then, when all is just right support the whole on a sufficient number of temporary cribs built on the ice, cut away the ice and lower gradually by pulleys to its place. The water in the flume could then be shut off entirely and that pipe put in. But it may be here where his trouble is, and the water cannot be shut off. If so, put timbers all across the flume, lay the pipe on them, calk all together and lower in place. Three or four men could go from pulley to pulley, easing up on each one inch or so at a time without harm to the joints. But, perhaps the river is too swift for ice, and there is no room on the dam to lay the pipe and roll it over into the water, holding it back by ropes and pulleys so as not to wreck the joints. In that case lay the pipe on the bank, placing it on smooth ways with rollers, then, as must be, drag it lengthways into place from the opposite side. A good house-mover would have the proper tools and would know just how to handle it. Furthermore, when the job is done, as 'D.S.A.' will surely find some way of doing it, will he just be kind enough to tell us how he did it, for it will be a good thing to know?"

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

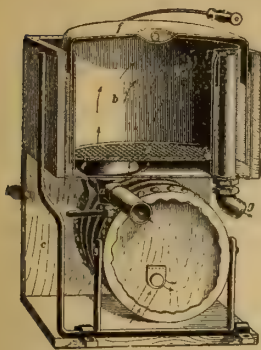


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New York Office:
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by testing your work
with the simplest and
most reliable Smoke
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**JAMES MORRISON
BRASS MFG. CO.
Limited**
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Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.
M. SCHRAYER'S SONS & CO.,
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Ontario Nut Works, Paris

BROWN & CO.

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All sizes of Hot Pressed
Nuts, Square and Hexagon

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SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.



THE "DAISY" SANITARY EARTH CLOSET.

Made entirely of
Metal, and Ventilated
Newest and Best.

Designed for dwellings
and places where water
closets cannot be used.
Does not gather odors
nor become unsanitary as
wood closets do.

Manufactured by
**THE TORONTO FURNACE
AND CREMATORY
CO., Limited.**

14 and 16 Queen St.
East, Toronto.

Write for circulars and
prices. Headquarters for
Builders' Castings, Sash
Weights, etc.



The

CARPENTER GRASS HOOK.

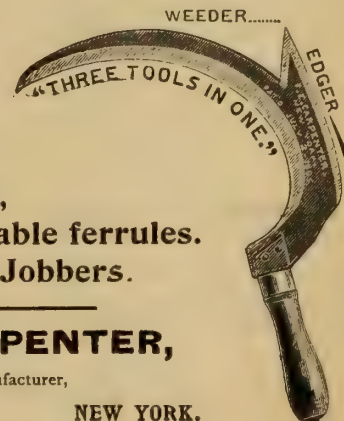
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Hard wood handles,
Strong malleable ferrules.
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Sole manufacturer,

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Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

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The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

BANQUET OF THE MONTREAL MASTER PLUMBERS.

MONDAY, February 13, was a gala night for the plumbing fraternity in Montreal. It was the occasion of the fifth annual banquet of The Master Plumbers' Association, and the boys had evidently determined to leave leaky pipes, defective drainage and kicking customers far behind and devote themselves to thoroughly enjoying the good cheer and good fellowship which always make the plumbers' banquets such jolly gatherings.

Nearly 100 members and guests sat down in the spacious dining-hall of the Balmoral Castle Hotel, with President John Watson in the chair and began the discussion of a delicious dinner. The menu included everything that the palate of an epicure could desire, and the cuisine was above reproach.

On either side of the chairman were seated Ex-president Harris, who represented The National Association; President Jas. Simpson, of The Builders' Exchange; John M. Taylor, of The Toronto Radiator Co.; Secretary Venne, of The Architects' Association, and Messrs. Wynne, McLaren, Ogilvie, Anthes, Alex. Robertson, Mongenais and Sclater. Some of the others present were J. A. Lamarche, E. H. Thurster, Wm. Ramsay, J. Foster, E. Watson, J. W. Hughes, J. P. O'Leary, McGowan, Kingsley, Blais, Egan, E. C. Mount, Powell, Davis, Beaupre, Gibeau, Poole, Giroux, W. Beaupre (jr.), Stewart, Lesard, Forest, Lamontagne, Warmole, Anill, R. E. Thorne (of The Metallic Roofing Co., Toronto), Thibeault, Goodman, Dickson, Lawrence, Fournier, Gordon, Martin, Tremblay, Date, Saunders, McEntee, Hebert, Lesperance, Prudhomme, Lecours, Woodham, Pettigrew, Walsh, Murray and Mount (sr.).

Before proposing "The Queen," the chairman called on Mr. P. C. Ogilvie to read the messages received from absent friends. Letters and telegrams of regret were read from President Wm. Smith, of The National Association; Mayor Prefontaine; H. R. Ives; J. Reid Wilson, of Thomas Robertson & Co.; Thos. J. Toote, of The National Association of the United States; A. E. McMichael, of The James Robertson Co.; R. J. Lockhart and Mr. Gurney.

After the toasts of "Her Majesty" and the "Governor-General" had been honored,

President Watson proposed "The health of the National Association" in a clever speech, in which he referred to the excellent work done by the association, and expressed the pleasure he felt in presiding over such a representative assembly.

On rising to respond, Mr. J. W. Harris was received with cheers. He regretted the unavoidable absence of President Smith, of N.A.M.P., and feared that he was an unworthy substitute. (No, no.) He was glad, however, to meet again so many of his trade confreres, and to see also such a



MR. J. W. HARRIS,
Chairman of the Banquet Committee.

large representation of the jobbing and manufacturing interests. He believed The National Association and the local associations were doing a great work in making members of the trade better acquainted with each other and in teaching them to help one another. The associations had not been formed with a view to helping the plumbers to make more money, but rather with a view to guarding the general interests of the trade and helping young men who were starting in business. If these aims were to be carried out, they must have united effort. Mr. Harris referred to the splendid work done by Father Labelle in colonizing the northern parts of Quebec. His success might be traced to persistent

and untiring effort. Mr. Harris made an equally eloquent speech in French.

Mr. E. Lesperance, provincial vice-president, also spoke briefly in reply to the toast.

"When the toast of the "Corporation of the City of Montreal" had been honored, J. Lamarche, in a spirited speech, referred to the failure of the sanitary committee to send a representative and to the manner in which the city council disregarded the sanitary laws.

Mr. J. W. Hughes followed, who delivered an eloquent address. He thought it was a pity that the city council were so overworked that not even one representative could be spared to attend so important a function as the plumbers' banquet. The sanitary committee of the council were not carrying out the law which provided for proper sanitation in every house and for other safeguards to the public health. Mr. Hughes urged the association to force the hand of the city council and compel them to carry out the law. The public health was the greatest asset any community possessed and it must be protected at any cost.

The health of "Our Guests" was proposed by the chairman and was responded to briefly by Mr. H. McLaren, who spoke of the enjoyable time that the plumbers' guests always spent.

Mr. John M. Taylor, of the Toronto Radiator Co., who also responded to this toast, was greeted with cheers. He spoke briefly in a humorous vein, and, at the request of a number of master plumbers, recited "The Face Upon the Floor," in spicited style.

Messrs. Venne and Simpson also spoke.

Mr. Anthes was called on for a few words amid loud applause. He declared that he was too bashful to address the plumbers and contended that the committee were wrong in calling this the fifth annual banquet. He was certain he had attended at least 15 banquets given by the Montreal plumbers. (Laughter). Mr. Anthes declared that he had issued a manifesto and called on Mr. Lamarche to read the following:

Mr. Chairman, Gentlemen,—I am glad to be with you to-night, but you will have to excuse me from saying very much, owing to my bashfulness; and, as you know, I have no political aspirations worth mentioning, and have no presidential bees humming in my bonnet, but wish to put it on record now, that I am, as I have always been, a candidate for

your goodwill, and would like to preside over the supply of your wants in the line of soil pipe.

I have grown wrinkled and almost baldheaded in service and am still poor, so that you need have no fear of my eligibility to the office towards which my ambition directs me.

If elected, I promise an administration of fair dealing, in which no broken promises or vows will embarrass my constituents. I have no campaign buttons, no photographs to dispense, but if you would like to see a sample of my good pipe platform, I will be pleased to show them to you in room No. 303.

I will also furnish you with statistics which I am sure will convince,

Now, gentlemen, I ask you once again, to vote early and vote often for me. I have known people in my time to die from the effects of being kept in suspense, and I am, therefore, anxious to know the outcome of my campaign as soon as possible, so please don't wait till summer time, but come up to my room and cast your vote now.

Humbly yours,

ANTHES.

Mr. J. W. Hughes proposed the toast of "Our Absent Friends" in an eloquent speech. Some, he said, were absent from business reasons, others because they had hardly realized the importance of the occasion. Others, alas, were absent because they had passed over to join the great majority. There were vacant places at the festive board which no one came to fill—Charles Jacotal, William Briggs and Fred. Horton had all passed away during the past twelve months.

"The Ladies" was responded to in witty speeches by John M. Taylor, Pat. Carrull and Mr. Wynne.

The health of "The Press," proposed by the chairman, was replied to by Lieut.-Col. John Bayne MacLean, managing editor of **HARDWARE AND METAL**. He expressed pleasure at being present and at hearing so many addresses from practical men. He thought the press of the city of Montreal should support the master plumbers in their fight for better sanitation and more perfect administration of the sanitary laws. The plumbers were untiring in their efforts to improve sanitary conditions, and every citizen should support them.

Songs by Messrs. Poole, Davis, Fournier and Jas. Giroux were a feature of the evening's entertainment.

The able banquet committee, who carried affairs to so successful a conclusion, consisted of: J. W. Harris, chairman; E. C. Mount, secretary; P. C. Ogilvie, treasurer; Thos. Moll, J. Sadler, E. Lesperance and J. N. Larivere.

"BUG DEATH."

Henderson & Potts are introducing a non-poisonous bug powder called "Bug Death." It not only kills the bugs, but is a plant food as well. A sample can be procured by writing the firm in Montreal and mentioning this paper.

Warnock's

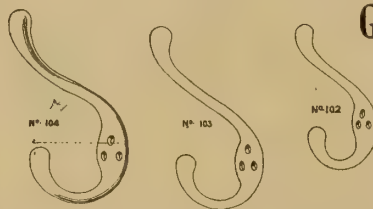


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James Warnock & Co., - Galt, Ont.

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E. F. WALTER & CO. - MONTREAL.



Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,
Canadian Agent, 220½ Board of Trade, MONTREAL.

Coppered Steel Spring Wire

Standard for furniture springs, high-grade, fully guaranteed for special purposes.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

The DETECTIVE AND CONFIDENTIAL AGENCY.

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Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employees or Friends.



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Everything in the stamp line.

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Hamilton Stamp & Stencil

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English Castor Oil

GUARANTEED PURE.

**Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure**

In cases of 2 tins and in barrels. Stocked by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO., - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS.

February 17, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 28
Straits	0 27½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X., "	6 25
I.X.X., "	7 50

J. E. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25
Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X., "	4 25
I.X.X., "	5 00
I.X.X., "	5 75
D.C., 12½x17	3 75
D.X., "	5 75

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base..	3 25
20x28.	6 75

Charcoal Plates—Terne.

Dean or J. G. Grade—	
I.C., 20x28, 12 sheets	6 25
I.X., "Terne Tin	7 75
I.C., Orion	6 25
I.X., Orion	7 25

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X., 14x56, 50 sheet bxs	0 05½
" 14x60	0 06
" 14x65.	0 07½

Tinned Sheets.

72x30 up to 24 gauge.	0 06
" 26	0 06½
" 28	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price
" from factory "	1 45
Refined "	1 35
Horse Shoe "	1 60
Band "	1 65
Hoop "	1 70
Swedish "	2 00
Sleigh Shoe Steel " base	4 00
Tire Steel	1 75
Machinery	1 85
Cast Steel, per lb	0 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb	0 10½
Tank Plates, 1-5 and thicker.	2 00
Roller Rivets	4 50

Boiler Tubes.

1½-inch	0 06½
2 "	0 07½
2½ "	0 09¼
"	0 11

Steel Boiler Plate.

3-16 inch	2 00
"	1 90

¾ inch and thicker..... 1 75

Black Iron.

18 gauge	2 40
20 "	2 50
22 to 24 "	2 55
26 "	2 65
28 "	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 61
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$7.31; ½ inch, \$2.31; ¾ inch, \$2.75; 1 inch, \$2.85; 1½ inch, \$5.15; 2 inch, \$6.60; 2½ inch, \$8.91.	
Galvanized, ½ inch, \$4.25; ¾ inch, \$5.10; 1 inch, \$7.00; 1½ inch, \$9.80; 2 inch, \$12.50; 2½ inch, \$17.00. Cast soil, 2, 3, 4 and 5 inch 60, 10 and 5 p. c.	

Galvanized Iron.

	Comet.	Amer.	Queen's Head.
16 gauge	3 50	3 75	
18 to 24 gauge	3 25	3 65	4 00
26 "	3 50	3 93	4 25
28 "	3 75	4 25	4 50
Less than cask lots, 25c. per 100 lb. additional.			

Chain.

Proof Coil, 3-16 in., per 100 lbs	7 00
" ¼ "	6 00
" 5-16 "	3 50
" ¾ "	3 15
" 7-16 "	2 95
" 1 "	2 81
" ½ "	2 70
" ¾ "	2 60
" 1 "	5 90

Trace, per doz. pairs.	3 60
Jack chain, iron, single, per doz. yards.	0 13
Jack chain, double, per doz. yards.	0 15
Jack chain, brass, single, per doz. yards.	20 10

Copper.

Ingot.	
English B. S., ton lots	0 17½
Lake Superior	0 18
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in. round and square	0 22
1 to 2 inches.	0 22

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60	0 23
Untinned, 14 oz., and light, 16 oz., irregular sizes.	0 23
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.	
Planished and tinned, 14x48 and 14x60	0 27

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25
" 35 to 45 "	0 21
" 50-lb. and above, "	0 23
Boiler and T. K. Pitts.	
Plain Tinned, per lb	0 23
Spun, per lb.	0 27

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½ p. c. off list.	
Sheets, hard-rolled, 2x4	0 20
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 06½
Domestic "	0 07

Zinc Sheet.

5 cwt. casks	0 07½
Part casks.	0 08
Lead.	
Imported Pig, per lb	0 04½
Domestic, per lb	0 04
Bar, 1 lb.	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05
by roll.	0 01½
NOTE.—Cut sheets ½ cent per lb. extra. Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount. NOTE.—Cut lengths, net price, waste pipe. in 8-ft. lengths, lists at 7½ cents.	

Shot.

Net list, no discount.	
------------------------	--

Solder.

Bar half-and-half	0 16½
Refined	0 15½
Wiping	0 14½
NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.	

Antimony.

Cookson's, per lb	0 11
Other makes, per lb.	0 09

White Lead.

Pure, Assoc. guarantee, ground in oil, 25 lb. irons	6 00
No. 1 do	5 62
No. 2 do	5 25
No. 3 do	4 87½
No. 4 do	4 10
Robertson's Chemically Pure	6 00
Munro's Saelet Flake White.	6 25
Elephant and Decorators' Pure.	6 00
Brandram's B. B. Genuine.	8 00
" No. 1	7 25
James genuine.	7 20
" No. 1	6 75

White Zinc Paint.

Elephant Snow White.	0 08
Pure White Zinc.	0 08
No. 1.	0 06
No. 2.	0 05

Dry White Lead.

Pure, casks.	0 04½
Pure, kegs	0 04½
No. 1, casks.	0 04½
No. 1, kegs.	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon.	1 00
Second qualities, per gallon.	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French "	0 05
Marine Black	0 09
" Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. O.) bbls. per cwt	1 35
Yellow Ochre (J.F.L.S.), bbls. per cwt	2 75
Yellow Ochre (Royal), per cwt	1 10
Brussels Ochre	2 00
Venetian Red (best), per cwt.	1 80
English Oxides, per cwt.	3 00
American Oxides, per cwt	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
" Umber, "	0 10
do. aw	0 09
Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½
Ultra marine Blue in 28-lb. boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks.	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
1 lb.	0 1½
1-lb. tins.	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100.	1 65
Bulk in less quantities.	1 80
25-lb. tins, 4 in case.	2 15
12½-lb. tins, 8 in case.	2 30
Quotations f.o.b. Toronto—1½c. per 100 lbs. extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.	

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do.	2 50
Body Varnish	4 50
Furniture Varnish.	0 15
Extra do.	0 90
Demar Varnish	1 60
Hard Oil Finish.	1 40
Orange Shellac Varnish.	2 00
White Shellac.	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.

Raw, per gal. net.	0 49
Boiled, per gal. net.	0 52
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net.	0 67
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots.	0 11½

Cod Oil, Etc.

Cod Oil, per gal.	0 50
Pure Olive.	1 20
" Neatsfoot.	90

Glue.

(In bbls.)	0 08½
Common	0 09
French Medal.	0 12
Cabinet, sheet.	0 11
White, extra	0 16
Gelatin	0 22
Strip	0 16
Coopers	0 19
Al clear.	0 09
Liquid Glue—F. L. Page's, discount 20 to 25 per cent off list; Munn's, discount 25 to 30 per cent. off list.	

HARDWARE.

Ammunition.

Cartridges.	
R. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. c. Amer.	

JOHN BOWMAN HARDWARE AND COAL CO.

London, Ont.

S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges pistolsizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, American list. B.B. Caps, discount 45 per cent.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
 Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 percent
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge 0 25
 Thin card wads in boxes of 1,000 each 8 gauge 0 25
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge 0 60
 9 and 10 gauges 0 70
 7 and 8 gauges 0 90
 5 and 6 gauges 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge 1 15
 9 and 10 gauges 1 40
 7 and 8 gauges 1 65
 5 and 6 gauges 1 90

Anvils.
 Per lb. 0 10 0 12½
 Anvil and Vice combined, 4 50
 each, 09
 Wilkinson & Co.'s Anvils, lb. 09½
 Wilkinson & Co.'s Vices, lb. 09½

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen 13 00 20 00
 Adjustable Stearn's, each 4 50 6 50
 Post-hole, Vaughan's, each 60 90
 Excelsior, Jennings', discount 50 per cent.
 Millar's Falls, per doz. 2 80 3 30

AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz. 6 00 12 00
 Double List, " 11 00 18 00
 Bench Axes, 40 and 10 p.c.
Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list
 Boxing extra

Anti-Friction Metal.
 "Tandem" A, per lb. 0 19
 " " B, " 0 16
 " " C, " 0 10½
 "Monarch" 1, " 0 21
 " 2, " 0 15
 " 3, " 0 10
 "Canadian" " 0 08½
 Magnolia Anti-Friction Metal, per lb. 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, 5 50 8 00
 "Peterboro", discount 50 per cent.
Cow.
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.
Farm.
 American, each 1 25 3 00

House.
 American, per lb. 0 35 0 40
Bellows.
 Hand, per doz. 3 35 4 75
 Moulders, per doz. 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.
 Auger.
 Gilmour's, discount 65 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 "Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.
 Gilmour's, 47½ to 50 per cent.
Expansive
 Clark's 40 per cent.
 Excelsior, 10 per cent.

Gimlet.
 Clark's, per doz. 0 65 0 90
 Diamond, Shell, per doz. 1 00 1 50
 Nail and Spike per gross 2 25 5 20

Blind Rollers.
 Annex, per doz. 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 00

Blind and Bed Staples.
 All sizes, per lb. 7½ 0 12

Bolts.
 Carriage, Standard, 50 and 10 per cent.
 "and larger, dis., 60 and 10 per cent.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Elevator, dis., 35 to 40 per cent.
 Machine, 5-16 and under, dis., 70 p.c.
 "and larger, dis., 65 and 10 p.c.
 Coach Screws, dis. 75 and 10 p.c.
 Plug bolts, 60 p.c.

Boot Calks.
 Small and medium, per M. 4 50
 Small heel, per M. 4 25

Broilers.
 Light, dis. 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City " 7 50 0 00

Butchers' Cleavers.
 German, per doz. 6 00 11 00
 American, per doz. 12 00 20 00

Building Paper, Etc.
 Plain building, per roll 0 30
 Tarred lining, per roll 0 40
 Tarred roofing, per 100 lb. 1 45
 Coal Tar, per barrel 3 75
 Pitch, per 100-lb. 0 60

Butts.
 Brass.
 Wrought Brass, dis., 17½ p.c. revised list.
Cast Iron
 Loose Pin, dis. 70 per cent.
Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair 0 40 0 65

Cards.
 Horse pe doz. 0 60 1 00

Carpet Stretchers.
 American, per doz. 1 00 1 50
 Bullards, per doz. 6 50

Carpet Sweepers.
 Bissell, per doz. 22 50
 World, " 21 75
 Dairy, " 24 00
 Star " 18 00
 Crown Jewel, per doz. 29 00
 Grand Rapids, " 24 00 33 00

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross. 8 50 9 50

Cement.
 Canadian, Portland. 2 65 2 90
 English " 2 80 3 00
 Belgium " 2 50
 Canadian hydraulic " 1 00 1 10
 Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross 0 45 0 75
 White lump, per cwt. 0 60 0 65
 Red " 0 05 0 06
 Crayon, per gross 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 40 and 5 per cent.

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.33—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock, Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain 3 25
 "embossed " 3 50

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe dies), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 5 per cent.

Door Springs.
 Torrey's Rod, per doz. (15 p.c.) 2 00
 Coil, per doz. 0 88 1 60
 English per doz. 2 00 4 00

Draw Knives.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 25 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz. net list.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz. 85 1 70

FILES.
 Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent
 Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27½ per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREZERS
 Ice Cream.
 White Mountain, 1 to 25 qt. 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.
 Henis', per doz. 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

GAUGES.

Marking, Mortise, Etc.

Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each. 1 65 2 40

GLASS.

Window.

Box Price.

Size United Inches.	Star. Per 50 ft.	Per 100 ft.	Double Diamond Per 100 ft.
Under 25	1 80	3 50	5 50
26 to 40	1 95	3 80	6 10
41 to 50		4 20	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.

Rope, ¾ per gross	8 25	8 50
" ½ " "	9 25	9 50
" ¼ " "	11 00	11 25
Leather, 1 in. per doz.	3 87½	4 10
" 1½ in. " "	5 15	5 25
Web, — per doz.	1 87	2 40

HAMMERS.

Nail

Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Magnetic per doz. 1 10 20

Sledge. Canadian, per lb. 0 07½ 8½

Ball Pean. English and Can., per lb. 0 22 25

HANDLES.

Axe, per doz., net. 1 50 2 00

Store door, per doz. 1 00 1 50

Chest, per doz. pairs. 0 40 2 50

Fork.

C. & B., dis. 45 per cent. rev. list.

Hoe. C. & B., dis. 45 per cent. rev. list.

Saw. American, per doz. 1 00 25

Plane. American, per gross. 3 1

Hammer and Hatchet. Canadian, 45 per cent.

Cross-Cut Saw. Canadian, per pair 0 13½ 0 20

HANGERS.

Door, 4 and 5 inch, per pair. 0 40 50

Lanes, 62½ per cent.

HATCHETS.

Canadian, dis. 40 to 42½ per cent.

HINGES.

Blind, Parker's, dis. 60 and 10 to 65 per cent.

"Shepard's Noiseless, dis. 60 per cent.

"Buffalo, dis. 60 to 70 p.c.

Light T and strap, 70 p.c.

Heavy, per lb. 0 03½ 0 04½

Screw hook and hinge—

6 to 12 in., per 100 lbs. 3 15

14 in. up, per 100 lbs. 2 35

per gro. pair

Spring. 8 50

HOES.

Garden, Mortar, etc. dis. 60, 10 and 5 p.c.

Planter, per doz. 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.
47½ per cent.

Wire.

Hat and coat, dis. 60 to 60 and 10 p.c.	
Belt, per 1,000.	0 60 0 70
Screw, bright, dis. 65 and 10 per cent	

HORSE NAILS

"C" brand, 50 p.c. dis.	} Oval head.
"M" brand 50 p.c.	
"P.B.", dis. 50 p.c.	
Acadian, 50 and 20 p.c., countersunk head	

HORSESHOES.

Iron Shoes.	F.O.B. Toronto.
Light, medium, and heavy.	3 25
Snow shoes	3 50

Steel Shoes.

Light, all sizes	3 45
Extra light	4 60
Toe weight (steel)	5 60
If shipped from factory, Montreal, 10c. per keg less.	

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.....	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.	
Cabinet, trunk, and padlock, Am. per gross.	1 60

KNOBS.

Door, japanned and N.P., per doz.....	0 90	
Bronze, Berlin, per doz.....	2 75	3 25
Bronze Genuine, ".....	6 00	9 00
Shutter, porcelain, F. & L. screw per gross.....	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00 doz. sets net, to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz....	1 75	7 50
Cabinet.		

Cabinet.

Padlock.		
English and Am., per doz....	50	6 00
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.	
Flat head, discount 25 p.c.	
Round Head, discount 20 p.c.	

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.....	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.	
German, 15 per cent.	

MOLASSES GATES.

Stebbin's Patent, dis. per cent., 77½ per cent	
--	--

NAILS

Quotations are:	Cut.	Wire.
2d. and 3d.	\$2 75	\$3 00
3d.	2 40	2 65
4 and 5d.	2 15	2 40
6 and 7d.	2 05	2 30
8 and 9d.	1 90	2 15
10 and 12d.	1 85	2 10
16 and 20d.	1 80	2 05
30, 40, 50 and 60d. (base).	1 75	2 00

Steel Cut Nails 10c. extra.
Brads and finishing nails, special sizes,
p.c. from new list.

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon, per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.

OIL.

Canada refined oil (Toronto).	0 14
Carbon safety "	0 16½
American w. w. "	0 17½
Pratt's Astral.	0 17

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.....	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.....	1 25	3 50
Brass, "	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head, "	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.	
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00
No. 38 Hand Machine, range 1½ to 4.	100 00
No. 56 Hand Machine, range 2½ to 6.	175 00

PLANES.

Wood, bench, Canadian dis. 55 per cent.	
American dis. 55.	
Wood, fancy Canadian or American, 37½ to 40 per cent.	
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.	
Miscellaneous, dis. 25 to 37½ per cent.	
Bailey's Victor, 25 per cent.	

PLANE IRONS.

English, per doz.	2 00	5
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz..	5 00	9 00
German, per doz.....	0 60	2 60

PLUMBS AND LEVELS.

S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.	
--	--

PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning	0 35	2 50

PUMPS.

Canadian cistern	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p.c. revised list.	
Wood, 25 per cent.	

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.	
Globe File Co.'s rasps, 60 and 10 to 70 p.c.	
Heller's Horse rasps, 50 to 50 and 5 p.c.	

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc. (Steel), 65 p.c.	
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.	
Black M. Rivets (Steel), 65 p.c.	
Black and Tinned Rivets, 60 and 5 to 65 and p.c.	
Copper Rivets & Burrs, 37½ p.c. Jis.	
" in ½-lb. boxes and cartoons, 1c. per lb. extra, net.	
Burrs, iron or steel, 55 and 5 per cent.	
Terms, 4 mos. or 3 per cent. cash 30 days.	

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.	
------------------------------------	--

ROPE, ETC.

7-16 in. and larger, per lb.	Sisal.	Manill.
¾ in.	9 ¼	10
¾ in.	9 ¾	10½
¾ and 5-16 in.	10 ¼	11
Cotton	10 ¾	13
Russia Deep Sea	14 ¾	14½
Jute	6 ¾	7 ¾
Lath Yarn	8 ¾	8 ¾
New Zealand Rope	½	½

RULES.

Boxwood, dis. 80 and 10, to 80 and 12½ p.c.	
Ivory, dis. 37½ to 40 p.c.	

SAD IRONS.

Mrs. Potts, per set.	0 55
N.P., per set.	75

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.	
B. & A. sand, 40 and 2½ per cent.	
Emery, 40 per cent.	

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	1 25

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft....	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.....	0 75	2 75
" frame only.....	0 75	0 75

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.	
B. S. & M. Scales, 50 p.c.	
Champion, 60 per cent	
Fairbanks Standard, 45 p.c.	
" Dominion, 60 p.c.	
" Kichelieu, 60 p.c.	
Chatillon Spring Balances, 25 p.c.	

SCREENS.

Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

Wood, F. H., iron, and steel, dis. 85 & 5 p.		
Wood R. H., " dis. 77½ and 5 p.c.		
" F. H., brass, dis. 80 and 5 p.c.		
Wood, R. H., " dis. 72½ and 5 p.c.		
Drive Screws, 37½ per cent.		
Bench, wood, per doz.	3 25	4 00
" iron, "	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.	
------------------------	--

SHEARS

Seymour's, dis. 60 p.c.	
Heinisch, dis. 60 p.c.	
Clauss, full nickel, 60 p.c.	
" japanned handles, 67½ p.c. off.	
Seymour or Heinisch tailor shears, 15 p.c.	

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.	
------------------------------------	--

SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.	
------------------------------	--

SQUARES.

Iron, per doz.....	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	2 50
Bright.	2 25

STOCKS AND DIES.

American dis. 25 p.c.	
-----------------------	--

STONE.

Washita, per lb.	0 28	0 60
Hindustan, "	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador, "	0 13	0 13
" Axe, "	0 15	0 15
Turkey, "	0 50	0 50
Arkansas, "	0 00	1 50
Water-of-Ayr, "	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.



No. 4-3 dozen in case, net cash	\$4 50
No. 6-3 dozen in case,	7 50

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c
2nd grade, 3 to 10-ft., per foot, 10c.

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk.	75
Cheese-box tacks, blued.	80 and 2½
Trunk tacks, black and tinned.	80 and 12½
Carpet tacks, blued and tinned.	80 and 12½
Cut tacks, blued, in dozens only.	50
" ¼ weights	60 and 10
Swedes, cut tacks, blued and tinned—	
In bulk	80
In dozens	70
Swedes, upholsterers', bulk	80 and 20
" brush, blued and tinned.	50
" gimps, blued tinned & japanned	75
Zinc tacks.	35
Leather carpet tacks	65
Copper nails	62½
Trunk nails, black and tinned	75
Clout nails, blued and tinned	75
Chair nails	45
Cigar box nails	45
Patent brads	50
Fine finishing	45
Picture frame points	25
Lining tacks, in papers	10
" in bulk	15</

ISLAND CITY Paint and Varnish Works

... Manufacturers of ...

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS: 274 St. Patrick St., MONTREAL.

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Students have a larger earning power who acquire the following lines of preparation under our efficient system of training. It has no superior.

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3. Typewriting,
4. Telegraphy, Commercial and Railway Work,
5. Civil Service Options.

Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

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CHARLES F. CLARK,
President.

J. CHITTENDEN,
Treasurer.

ESTABLISHED 1849.

THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,
Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

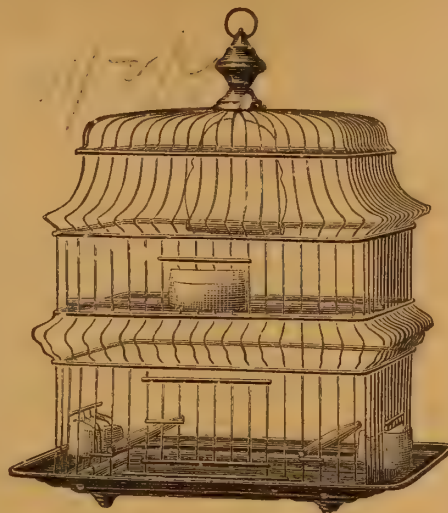
Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

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THE ABBEY IMPROVED CHILLED SHOT NEWCASTLE, ENGLAND.

Is made by a New Process, and is highly spoken of by Sportsmen and Sporting Papers. Kills at greater distance than Soft Shot. Gunmakers wishing repeat orders should load with this shot.



"BUILD TO-DAY THEN.
STRONG AND SURE
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CONTRACT-
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PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
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Weights 12 oz. Rebounding lock. 32
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Made with shorter barrel for bicycle
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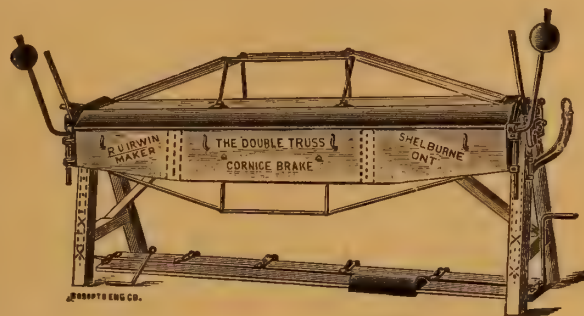
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Manufacturers of the
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This eight-foot Brake bends 22-gauge iron
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Price, \$50

Very handy beader attachment, \$10 extra,
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Special Prize

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Robertson's Bicycle Enamels

World-renowned for their Durability and Finish,
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Enamel to-day

*Drop us a card for
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White Mountain Freezers



WHITE Mountain Freezers represent three virtues that every dealer ought to burn into his memory—Leadership, Profit, Satisfaction.

More **White Mountain Freezers** are sold than of any other make. They are first in sales, first in convenience, first in durability, first in the favor of the public.

They give satisfaction to the owner, and they are of so high a character that they command a price upon which the dealer can realize a good profit.

Profit to you—satisfaction to your customers. That is what it means to sell **White Mountain Freezers**. No dealer can ask for more, and no manufacturer can give more.

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Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

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"LEST WE FORGET"

To call on you, here are
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Columbus Bicycles.

\$50.00

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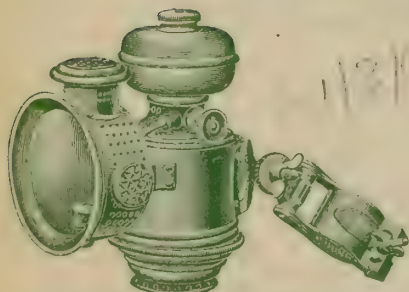
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M. & W. Lancaster Gas Lamp

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We guarantee our wheels to be cheaper than any equal grade ever
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Beautiful and complete Catalogue on application.

CAVERHILL, LEARMONT & CO., MONTREAL

Scientific Bearing Metal
Langwell's Babbitt
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CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, FEBRUARY 25, 1899.

NO. 8



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,

266 and 267 New York
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Sold Everywhere.

"Queen's Head" is the standard
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most of the leading jobbers. If
your jobber does not carry it, he
can get it for you. Insist on having "Queen's
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BRISTOL and MONTREAL.

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SAFFORD Patent RADIATORS

*For Heating by
HOT WATER and STEAM.*

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

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FINE BUILDERS' HARDWARE.

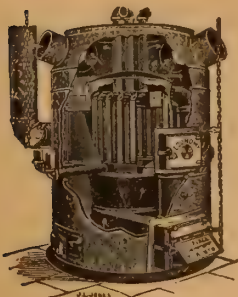
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That are necessary in a satisfactory and efficient Heating apparatus are embodied in the

"ECONOMY" FURNACES and HEATERS



The "Economy"
Hot Water and Warm Air
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Their durability is assured beyond any question. Then, too, they are simple in construction and operation; have enormous heating capacity, and are most economical in the use of fuel. These are the points that are considered by the careful and discriminating buyer, and among such buyers our Heaters are known as "The Standard of Excellence."

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Price List.

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Heating and Ventilating Engineers

189-193 Queen St. East, TORONTO, ONT.

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303 CAL.



Hammerless
Smokeless
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New 1899 Model

AGENTS:

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LATEST and FINEST Rifle
manufactured.

Write for complete
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SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co." The Complainant is entitled to an accounting, and to an injunction restraining them from using the names "Heinisch" or "H. C. Heinisch" on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name.

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

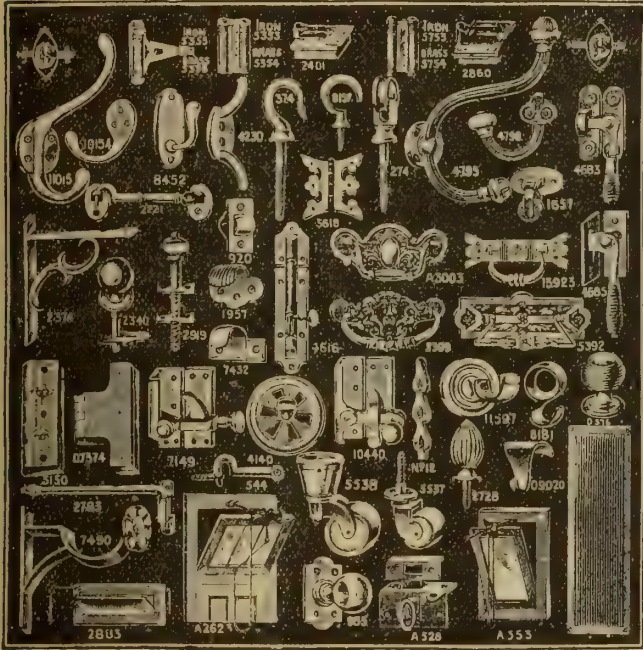
NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

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Manufacturers of every description of

CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
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London Showrooms: 57 Holborn Viaduct, E.C.

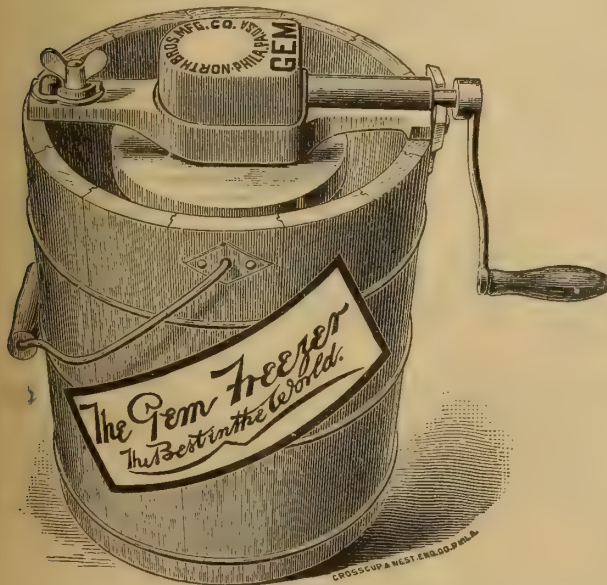
Our Phoenix Red Sheet Packing

is not affected by oils, ammonia, liquors, steam, heat, or alkalies. It conforms to rough surfaces. It makes a perfectly tight joint. It retains its elasticity under any condition.



"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



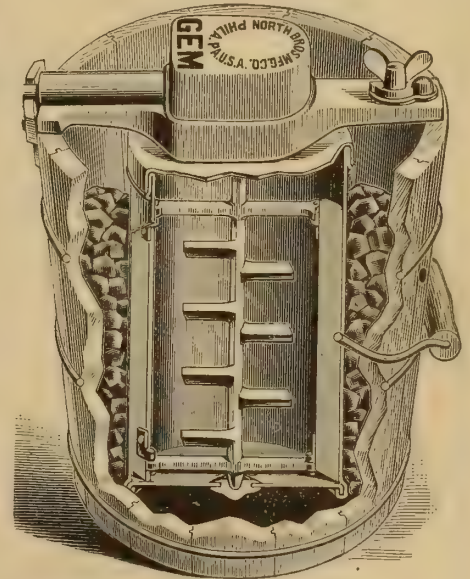
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,
Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.



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Cloth and Paper.
Glass and Flint Paper.

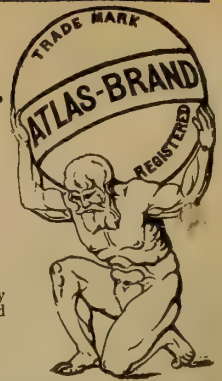
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"FLORA" Knife Polish, in 3d, 6d.
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Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

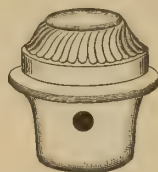


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THE LONDON EMERY WORKS CO.,

10-12 Vine Street
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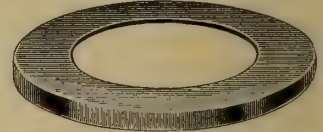
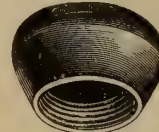
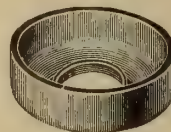
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In **BRASS, NICKEL**
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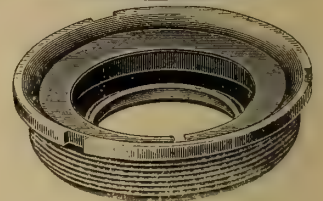
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**Sheet Steel
Bicycle Fittings**

OF ALL
DESCRIPTIONS.

Estimates furnished from Blue Prints,
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The fibre is long
and strong

**BROWN WRAPPING
HARDWARE MANILLA
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The E. B. EDDY CO., Limited

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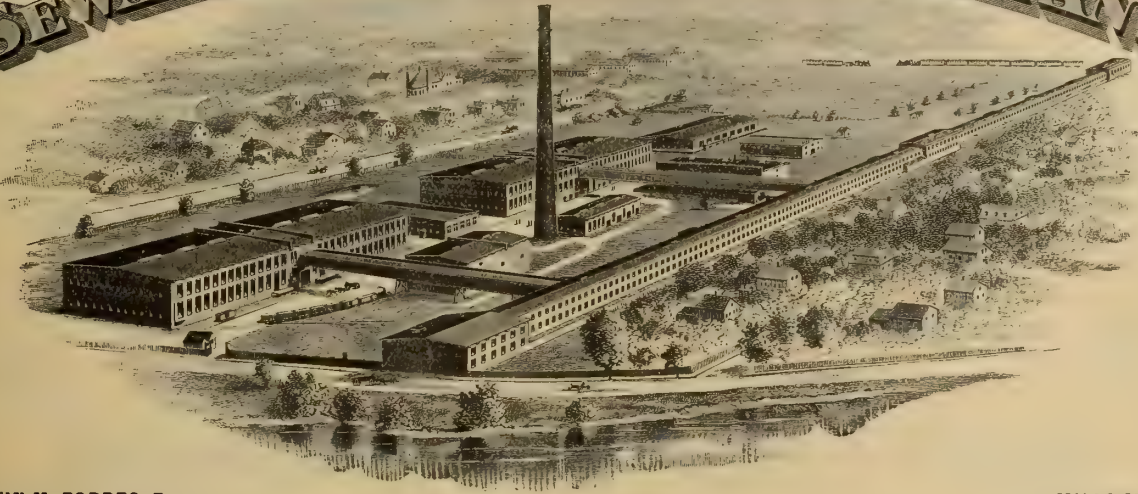
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ESTABLISHED 1835.



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Despite statements to the contrary, by a certain competitor, the **SEWALL & DAY CORDAGE COMPANY** guarantee their "**S.D.**" Binder Twines first class in every way and equal to the best Binder Twines made.

"**S.D.**" Binder Twines always average the number of feet to the pound claimed for them.

For sale in Ontario and Quebec by

**John Bowman Hardware
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. . . London, Ont.

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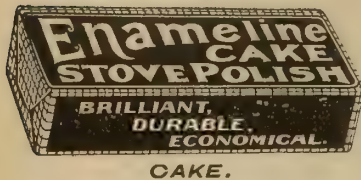
T. BURROWES ROSS, Canadian Representative,

417 Board of Trade Building

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Enameline

The Modern **STOVE POLISH**

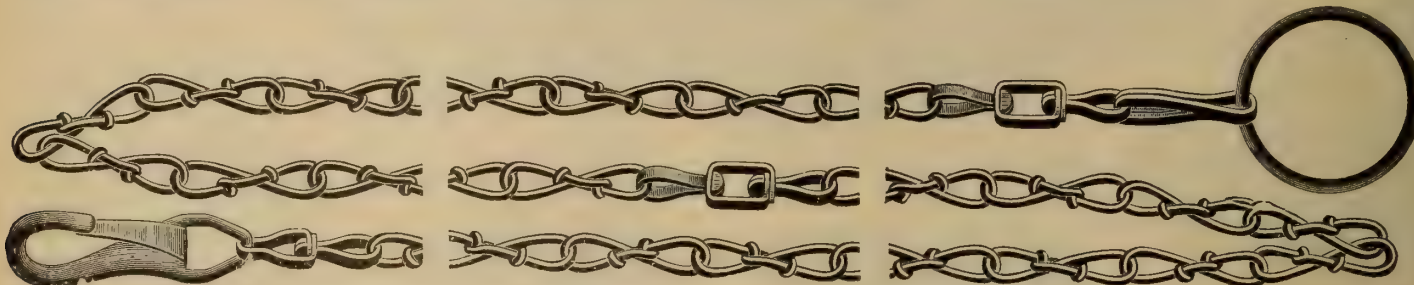


We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize housekeepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.

Oneida Steel Wire Tie-Out.

For tethering cattle in fenceless pastures.
Made in all sizes. . .



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

NIAGARA FALLS, ONT.

Kemp's Wickless Blue Flame Oil Stoves.

A New Feature this year will be our Wickless Blue Flame Oil Stove.

**HANDSOME, CONVENIENT
and ABSOLUTELY SAFE.**

The Oil is fed to a powerful burner through Solid Brass Tubes, and Lights Instantaneously.

SIGHT FEED.

Removable Tanks, covered by Swinging Shelf.
No Complications, as Stoves are supplied with Removable Parts and can be quickly taken to pieces.

ECONOMICAL IN FUEL.

The Simplest, Readiest Understood, and most Reliable Wickless Blue Flame Stove made.



KEMP MANUFACTURING CO. - Toronto, Can.



Vol. XI.

MONTREAL AND TORONTO, FEBRUARY 25, 1899.

No. 8

President,
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Treasurer,
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Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE ADVANCE IN VALUES.

EVERY week the unusual strength in iron and metal has further demonstration, and in the past eight or ten days there have been some further sensational advances recorded. For instance, billets at Pittsburg advanced from \$17.75 on the 15th of the month to \$20.00 on the 21st. As these constitute an important raw article for the Canadian rolling mills, it is not surprising that, with this advance of \$2.25 in the cost of raw material in less than a week makers are withdrawing old quotations and demanding substantial increases.

In other metals the general tendency, with

the exception of pig tin, has been steadily upward. The metal named has recorded some fluctuation up and down during the week, but not sufficient to affect the regular jobbing values. On the 15th, for instance, it was quoted in London at £108 5s., whereas on the 21st it had dropped to £107 5s. In New York, on the other hand, Straits tin advanced from \$24.25 per 100 lb. on the 15th to \$24.40 on the 31st. Copper and spelter in the same interval scored a uniform rise, the latter being 2s. higher in London, and ⅓c. in New York on the 21st than it was on the 15th, while copper advanced to £74 15s. in London, and to 17 ⅓c. in New York.

A comparison of the highest and lowest values in some of the leading metals since January 1 obtained from W. I. Russell & Co., 66 Maiden Lane, New York, makes interesting reading.

The highest price for G.M.B. spot copper in London in the interval was £75 10s. and the lowest £58 1s. 3d. The low point for lake ingot at New York was 13 ¼c. and the high 18 ½c.* The lowest price for spot Straits tin in London was £88 5s. and the highest £114 2s. 6d. In New York, the price on the article swung from \$19.70 up to \$25.25. As practically all of these metals stand at the high point now, or nearly so, the enormous appreciation in values will be readily recognized.

LARGE CEMENT CONTRACT.

The Federal Government have just closed a heavy contract for 40,000 bags of American cement, at the equivalent of \$2.20 per barrel laid down in Montreal.

FURTHER CHANGES IN WIRE.

In the new lists which have been issued, bright and annealed, coppered, galvanized, and tinned wire are all embraced under the classification of smooth steel wire.

Since our last issue there has been a further appreciation in price, the base figure f.o.b. factory point now being \$2.05.

Wire, No. 17 and smaller, is now designated by the manufacturers as "fine steel wire." A new list has been issued, and annealed, weaving or binding wires are quoted as follows: No. 17, \$5; No. 18, \$5.30; No. 19, \$6.30; No. 20, \$6.65; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 28, \$11; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17.

Extras, net: Tinned wire, \$2.50; in 25-lb. bundles, 10c.; in 5 and 10-lb. bundles, 25c.; in 1-lb. hanks, 50c.; in ½-lb. hanks, 75c.; in ¼-lb. hanks, \$1; packed in casks and cases, 15c.; packing and papering, 10c.

The discount off the list is 25 per cent. f.o.b. factory point.

ADVANCE IN IRON PIPE.

A slight advance has been made in the price of iron pipe of Canadian manufacture.

The following is now the idea as to price to retailers: ¼ to ⅜-in., \$2.50; ½-in., \$2.40; ¾-in., 2.80; 1-in., \$3.95; 1 ¼-in., \$5.10; 1 ½-in., \$2.75; 2-in., \$9.10.

The wrought pipe manufacturers in the United States, who are rushed with orders, last week advanced their prices 5 per cent. The appreciation in the price of Canadian pipe is practically the same as that of United States make.

THE ABORTIVE COMMISSION.

IT was, from the very outset, expected by the majority of people in Canada, that the conference between the representatives of this country, Great Britain and the United States would prove abortive. The expected has happened, and, naturally, there is no disappointment; or, at any rate, none of any moment.

But, while there is little or no disappointment, it is to be regretted that the conference ended as it did. There are questions of an international character which should be settled, and which will eventually have to be settled in some way and at some time. As long as they are not settled they will be a source of irritation.

They have been the cause of a great deal of irritation in the past and there is no guarantee they will be anything different in the future. We have reference to the Alaskan boundary, the sealing, and the fishery questions.

The cross road at which the commissioners eventually separated was the boundary question. The position taken by Canada in regard to this question may or may not be correct. That is to be determined. The commissioners believed themselves to be right, and they had, and have, the country at their back.

The United States commissioners, on the other hand, no doubt believed their own view was the correct one. But the mutilated form in which they desired to submit this particular question to arbitration was anything but fair. Their proposition was not much of an improvement upon that which is sometimes put: "Heads I win; tails you lose."

Putting it another way, it is like a man who has come into possession of a farm in a questionable way offering to submit the question as to ownership of the swamps to arbitration, but declaring that the richest of the land must be exempt from consideration by the arbitrators.

The question of reciprocity was not of as great importance as some of the others. But it was important. **HARDWARE AND METAL** has favored a reciprocity treaty if it could be obtained on fair conditions.

Restrictions cannot help international trade any more than lead can lend aid to a floating body. And certainly there are re-

strictions in regard to trade between Canada and the United States. This is particularly so in the tariff of the United States, for it was constructed in some particulars specifically with a view to keeping out Canadian products.

Desirable as reciprocity may be, Canada can afford to wait for it. The export trade is growing quite nicely, particularly with Great Britain.

Compared with the year when the McKinley bill went into operation, the export trade of the Dominion is 65 per cent. larger, notwithstanding that our shipments to the United States are less than \$1,000,000 worth more than they were in 1890.

Away back in July last, *The New York Journal of Commerce*, the leading commercial daily of the United States, asserted that the "commercial sentiment in the United States is strongly in favor of reciprocity." And the fact that over 50 commercial bodies in the United States have during the past twelve months declared themselves in favor of reciprocity with Canada, is a corroboration of that statement. But, unfortunately, it is not the commercial class that rules in the United States; it is the political. And business between the two great English-speaking nations upon this continent has to suffer as a result thereof.

The New York Commercial Advertiser, another influential commercial daily, declared only a few weeks ago: "Interest plainly prompts us to examine whether the principle of give and take has not a more practical aspect now in our relations to Canada than ever before * * * The number of people in the Dominion is no measure of the value of her natural resources to us * * * Canada may be worth more to us as a market to buy in than as a market to sell in."

The New York Times, too, has come out in favor of reciprocity with Canada, and, in its issue of February 5, declared that it should be the earnest purpose and effort of the business men of New York to defeat the selfish schemes of the coal and lumber interests. *The New York Tribune* also exerted its influence on the side of those in the United States who were in favor of a treaty with Canada.

However, had a treaty been agreed upon, it is unlikely that it would ever have received the assent of the United States Senate. A body that refused to ratify the treaty of arbitration between Great Britain and the United States is scarcely likely to have endorsed a treaty such as that which the commissioners were recently trying to draft in Washington. The knowledge of this fact, no doubt, exerted its influence upon the United States commissioners. There was a sort of "the bogey man will catch you, if you don't look out" ringing in their ears, and they knew that the bogey man—the politician—was no myth.

While the Canadian Parliament is not in the habit of rejecting treaties which its commissioners negotiate, yet the Dominion Government might have prevented the possibility of its doing so, had it accepted the suggestion of this paper and done as President McKinley did, namely, appoint as one of the commissioners a gentleman from the Opposition benches. Had Sir Charles Tupper or some other man from the Conservative ranks been appointed, not only would it have prevented the possibility of the treaty being rejected by Parliament, had such a document been drafted, but it would have kept the matter out of politics, treaty or no treaty, for it is not justice that politicians are usually actuated by in their attacks; it is party exigencies.

A great many people are disposed to blame the Dominion Government for consenting to a conference with the United States. We cannot agree with them. Aside altogether from the reciprocity question there were international matters, as we have already pointed out, which, on account of their irritating nature, were standing menaces to the peace between the two countries. And there does not appear to be any doubt that the whole proceedings were instituted by the Imperial Government, who is anxious that even that which threatens to create unpleasant relations between the two countries shall be removed.

The duty that now lies before Canada is to "paddle her own canoe" more vigorously than ever. While closer trade relations with the United States is eventually likely, in view of the interest the commercial bodies across the border have taken in the matter, there is no prospect that it will be realized for several years yet. In the meantime, therefore, the energies of the Dominion should be devoted to cultivating its export trade in soil more congenial than is to be found at the moment in the United States.

LIST AND DISCOUNT ON TACKS CHANGED.

QUITE a radical change has been made by the tack manufacturers, a revised list as well as a new discount sheet having been issued. The new list is as follows:

TACKS (Half Weight.)	LIST PRICE PER DOZEN.																Oz.
	1	1½	2	2½	3	4	6	8	10	12	14	16	18	20	22	24	
Cut and carpet tacks.....Blued	50	55	60	65	70	75	90	110	130	150	170	190	210	230	250	270	cts
Carpet tacks.....Tinned					95	105	125	150	185	215	250	280	315	345	380	410	"
Leathered carpet (100 to paper)							60	60	64	68							"
Swede's iron cut.....Blued	80	85	90	95	100	115	145	175	205	235	265	295	325	355	390	425	"
".....Tinned	120	125	125	130	130	155	190	235	280	325	370	415	460	505	555	605	"
Swede's gimp.....Blued	88	95	103	110	120	130	143	155	170	188							"
".....Tinned	113	120	128	135	145	158	170	183	205	228							"
Assorted cut tacks, quarter weight, 4 to 14 oz. and 4 to 10 oz.....\$3.50 per box.																	

IN POUND PAPERS AND BULK.	LIST PRICE PER POUND.																Oz.
	1	1½	2	2½	3	4	6	8	10	12	14	16	18	20	22	24	
Carpet tacks.....																	
Swede's iron tacks.....																	
" upholsterer tacks.....																	
Cheese box tacks, oval or flat head.....	160	120	95	80	73	65	58	50	48	45	45	40	40	40	40	40	"
Trunk tacks.....Black																	
Gimp tacks.....Blued	223	162	128	112	98	82	63	48	44	40							"
".....Tinned	266	200	164	141	120	98	76	57	53	49							"
Solid head japanned lining tacks.....				80	75	65	55	52	50								"
Strawberry tacks.....			80														"
Copper tacks.....All sizes	66																"
Zinc tacks.....	30																"
TINNED TACKS.....																	
(All kinds except gimp.).....	295	200	150	120	100	95	80	70	70	65	65	60	60	60	60	60	"

GOODS SOLD BY LENGTH. Price per pound, paper or doz.	LIST PRICE PER POUND, PAPER OR DOZ.															In.
	¾	4/8	½	¾	½	1	1½	1¾	1½	1¾	2	2¼	2½			
Clout and trunk nails.....	42	30	24	20	18	17	17	17	17	17	17	17	17	cts. per lb.		
".....	48	36	30	26	24	23	23	23	23	23	23	23	23			
Fine finishing nails.....	42	30	24	20	18	17	17	17	17	17	17	17	17	" "		
Chair nails.....	}	34	32	30	28	26	26							"		
Cigar box nails.....																
Patent brads.....Half weight	60	60	66	72	78	96	108	114	144	180	216			pr doz pap'rs cts. per lb.		
".....In lb. papers	80	53	44	32	28	26	24	22	18	16	16					
Brush tacks.....			72	48	36	29	24	22						" "		
Copper nails.....All sizes	66														" "	
Picture frame points.....	10														" "	

For keg tacks and capped goods, see separate lists. Half-pound papers, 1c. per lb. extra net.

The new discounts will be found in our prices current.

The advance in prices is about 8 per cent.

Some of the jobbers seem to think that it would have been better if the manufacturers, when revising the list, had made it conform to that of the manufacturers in the United States, as it is claimed that at present orders are going to the United States for some lines on the supposition that the prices are lower, when in reality they are not. This, it is asserted, would be obviated if the two lists were the same.

WIRE NAILS, BILLETS AND RODS.

While there has been no quotable change in the price of wire nails on the Toronto

market, the situation is certainly stronger than it was a week ago. In Montreal, there has been an actual advance of 5c. per keg, carloads being quoted at \$2, and smaller quantities at \$2.05 per keg.

A strong feature of the situation is that practically no wire rods are to be obtained,

the big syndicate in the United States stating that what rods it has are required for its own use.

Rods are now up to \$27 in Chicago, and billets are nearly \$2 higher in Cleveland, owing to sales of 7,000 tons at Pittsburg.

With the grasp it has on rods it is possible the syndicate may make things unpleasant for the wire and wire nail makers even in Canada.

Some nailmakers in this country have sent inquiries to Great Britain for prices on nail wire, but with what result is not known.

Although no further change has taken place in wire nails in the United States, the price of cut nails is 5c. per keg higher.

INSURANCE RATES AND GASOLINE STOVES.

THE attitude of the insurance companies towards gasoline stoves is gradually undergoing a change, due nearly altogether to improvements which have been made in the manufacture of these stoves.

The explosions of gasoline stoves, which the daily press, from time to time, chronicled, were due to carelessness. Too often, when refilling the stoves, the extinguishing of the light was neglected, with the result that the vapor became ignited, when, of course, an explosion followed.

The gasoline stove industry naturally suffered on account of this carelessness, for the use of a gasoline stove meant an increase in the insurance rates. In some instances the increase was at least 25c. per thousand.

By the improvements which have been made, practically even carelessness cannot now cause an explosion, for the very motion which opens the reservoir in order to replenish it with gasoline, extinguishes the light.

As a result of this the insurance companies are gradually withdrawing the extra charges, and a paper in the United States recently printed a list of about 75 companies which had done so. Among them were the following which do business in Canada: Equitable Fire and Marine, Liverpool and London and Globe, Etna, Hartford Fire, Norwich Union, Manchester, Connecticut Globe Fire, Lion, Royal, Western Assurance, North British and Mercantile, Northern Assurance, Imperial, London and Lancashire, Mutual, Phoenix, Lancashire, British America, Sun.

BLACK SHEETS ADVANCE.

Jobbers have been notified by wire by the makers in the United States of an advance of 15c. per 100 lb. in the base price of black sheets, the new figures to go into effect at once.

So far, the effect has only been to make firmer the quotations which appear in our prices current.

ADVANCE IN COPPER PITTS.

An advance of 5c. per lb. has been made this week in the price of copper pitts. The figures are now as follows: Plain, 28c. per lb.; spun, 32c. per lb. Tinned copper sheets and planished sheets are both 3c. per lb. dearer, the former now being quoted at 26c. per lb. and the latter at 32c. per lb.

LEGAL DECISIONS OF TRADE INTEREST.

(Reported by Peers Davidson, Esq., of the Montreal Bar, for MacLean's Trade Journals.)

IS a statement by a trader that goods of his manufacture are superior to those manufactured by another rival trader, although untrue and made maliciously, actionable as a defamatory libel; and does such a statement afford ground for an action for disparagement of goods, even if the plaintiff is damaged by it, and avers special damage?

These two questions have lately been answered in the negative by the English Court of Appeals, in a case of some interest to the trade. The plaintiffs were a limited company, and they and their predecessors had carried on business as wholesale oil merchants and paint manufacturers for upwards of 125 years. The defendants carried on a similar business and were a company similarly incorporated. The plaintiffs complained that they had been libeled and damaged by the defendants who had published to the trade the report of experts comparing "The Bell Brand Genuine White Zinc," manufactured and sold by defendants, with "Hubbuck's Patent White Zinc," manufactured by plaintiffs. The report stated the test in detail, and, in conclusion, stated that it was quite clear that defendants' zinc had a slight advantage over plaintiffs' zinc, but that for all practical purposes, they could be regarded as being, in every respect, equal.

Plaintiffs complained in detail that the report insinuated that defendants' white zinc was genuine, and plaintiffs' zinc was adulterated and not genuine, and that defendants' zinc was superior to plaintiffs', both of which statements plaintiffs declared to be untrue and made maliciously.

The remarks of the Master of the Rolls, Lord Lindley, in rendering the judgment for defendants, are interesting. He said, in part: "The truth is that the defendants' circular, when attentively read, comes to no more than a statement that the defendants' white zinc is equal to and, indeed, somewhat better than the plaintiffs'. Such a statement, even if untrue and the cause of loss to the plaintiffs, is not a cause of action. Moreover, an allegation that the statement was made maliciously is not enough to convert what is prima facie a lawful into a prima facie unlawful statement. It is not unlawful to say that one's own goods are better than other people's, and Allen vs. Flood (1897) shows that malice, in such a case, is immaterial. The fact that the defendants call their white zinc 'genuine,' and contrast it with the plaintiffs' white zinc, which is not called 'genuine,' is relied upon by the plaintiffs as showing that the

circular is, or may be, fairly regarded as a defamatory libel on the plaintiffs—that is, a libel on them in the way of their trade. But, when the whole circular is looked at, and it is found that the defendants state that for all practical purposes the two contrasted paints are in every respect equal, it is impossible to treat the circular as anything more than a disparagement of the white zinc paint made and sold by the plaintiffs. No ingenuity can convert the circular into a defamatory libel on the plaintiff company, and, if the action went to trial, it would be the duty of the judge to tell the jury that no question of libel on the plaintiffs had to be considered.

"We will now consider the circular in its other aspect, namely, as a disparagement of the plaintiffs' goods. From this point of view, the case is undistinguishable from Evans vs. Harlow, and Young vs. Macrae, (1862), where malice, falsehood and damage were all alleged, and yet, it was held that what the defendant there published was not actionable. The ground of the decisions in both cases was that for a person in trade to puff his own wares and to proclaim their superiority over those of his rivals is not actionable. The principle laid down in these cases has never been questioned, and it has been emphatically approved in White vs. Mellin."

(Hubbuck vs. Wilkinson, 68 L.J., Q.B.D., p. 34.)

A case similar to the above does not appear to have yet arisen in the Province of Quebec.

A DEBT-COLLECTING FIRM.

J. Jones and W. F. Holland have opened up a mercantile and commercial agency in the Janes Building at Toronto. They take up all matters of a strictly confidential nature, including collections, commercial and professional; private reports, both legal and insurance; incendiary investigations, and cases needing tact and privacy, which they treat with the utmost professional skill. They court the fullest investigation as to their bona fides. Mr. Holland was one of the men who captured Charles Peace, the notorious murderer, in 1882, at Blackheath, England; William Whistler and Charles Russell, the famous Hatton Garden bank burglars, at the Marylebone church, London, England, 1886, when \$500,000 worth of diamonds were stolen, which were recovered. He was shot through the right thigh, and also lost the calf of his right leg, for which injuries he receives a permanent pension from the Scotland Yard authorities. He was pre-

sented with a gold medal for his meritorious conduct from H.R.H. the Prince of Wales, and also received from Sir James Ingram, Bow Street magistrate, the highest reward (one hundred guineas) ever given to a police officer for gallant conduct, and holds testimonials from Sir Charles Warren, Chief of the London police, and other persons in official circles. Mr. Jones, the manager, was formerly a well-known commercial man in Toronto, and is well qualified to fill the position.

MONTREAL HARDWARE HOCKEY LEAGUE.

TEAMS from Thos. Robertson & Co., Limited, and Montreal Rolling Mills Co., played their second scheduled game in the Prince Arthur rink on Thursday, February 16, before a large and enthusiastic audience. The play on both sides was good, and it certainly was the best match played in the above league this season. The first half ended with neither side scoring, though the defence men on both sides had some very close calls. The second half opened up with some splendid rushes by both teams, but without effect. With only three minutes to play the "M" brand horseshoe boys pulled themselves together, and after a fine rush, Wood succeeded in scoring the first goal. Not satisfied, the horseshoe boys kept going, and Hough scored another goal before time was called, winning a hard and cleanly contested match by two goals to nothing.

The teams and officials were:

M. R. M. Co.		T. R. & Co., Ltd.
O'Dowd.....	Goal	Beatty
Moore.....	Point	Irving
G. James.....	Cover Point	McGinnis
Hough.....		Pow
Lawlor.....		McKenzie
A. James.....	Forwards	Vallance
Wood.....		Orsali
Geo. Davis.....	Umpires	George Morris
M. J. O'Shaughnessy.....	Timekeeper	C. L. Brewer.

Mr. H. L. Shaw, of Jas. Johnston & Co.'s hockey club, refereed the game to the satisfaction of both teams.

The standing of the M. H. H. L. at present is:

	Won.	Lost.	To play.
Montreal Rolling Mills Co.	4	0	2
Thos. Robertson & Co., Ltd.	3	2	1
Caverhill, Learmont & Co.	2	2	2
Frothingham & Workman	0	5	1

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

CENTRAL PRISON ROPE.

AT Monday's session of the Ontario Legislature Hon. Mr. Davis laid on the table a copy of an agreement between the Inspector of Prisons and Public Charities and the Independent Cordage Company of Ontario, Limited, respecting the manufacture of rope at the Central Prison, Toronto. The agreement sets forth that the company having expressed a desire to manufacture rope as provided in the agreement with the Government of September 25, 1895, and the Secretary and Inspector of Prisons having consented thereto, the company is permitted to manufacture rope of all sizes up to two inches in diameter, which shall include all kinds of cordage, twine and lath yarn capable of being produced with the prison cordage plant, as equipped by the company for the purpose; and it is agreed that all machinery necessary to be added to the present prison plant for the purpose of carrying out this object shall be provided and be installed by and at the cost of the company, but subject as to price, the special make of machinery selected and the manner of its installation to the written approval of the inspector. The agreement further provides that the company shall be reimbursed the amount paid in providing and installing such rope-making machinery as has been approved in writing by the inspector by setting apart from the total sum payable by the company to the inspector whatever amount such total may be in excess of the amount payable on a daily average of two and one-half tons of rope, twine and yarn for each working day of ten hours during the year, it being understood and agreed that the inspector shall first receive payment for two and one-half tons of product as a daily product in each year, and that only the accruals from a larger average product shall be applied towards reimbursing the company.

After the company has in this manner been reimbursed the actual cost of providing and installing the machinery, it shall in like manner be reimbursed interest at 6 per cent. per annum on its expenditure, calculated from the time when the price became payable under the terms of the purchase until such time as the accruals, estimated on a basis of $1\frac{1}{2}$ tons per day, equal the actual cost incurred in providing and installing said rope-making machinery, the interest to be calculated at the end of each year on the portion of the cost yet remaining unsatisfied. But in case the product in any year does not equal an average of four tons per day, and the failure to manufacture that amount is due to any cause for which the company is not responsible, then allowance shall be made in any calculation for

the reduced output arising from such causes. The company must, however, give notice within 48 hours after the happening of such cause, and the Provincial Secretary shall give a binding decision whether the company is entitled to the allowance.

If the machinery is clear of all liens other than to the inspector, the amount of accruals may be transferred to reimbursement account, provisionally, at the end of each month, but the final amount for the year shall be determined by the average for a like period, and all amounts so transferred become a lien on the machinery. The inspector is to appoint a machinery expert, approved of by the company, at a cost not to exceed \$1,500 per annum, to take charge of the machinery and exercise supervision over it, one-half of the salary to be paid by the company, and, as this division of the cost of the expert is based on a daily output of not less than four tons on and after March 1, 1899, should the daily average output fall below that quantity, an additional proportion of the expert's salary is to be charged to the company. Should the daily average exceed four tons in any one year, 10 per cent. of the accruals from such excess is to be credited to the company up to the proportion of salary paid by the

company. No liability is to attach to the inspector, who is indemnified by the company as their servant, and not the servant of the Government.

The company is bound down to make sufficient binder twine to meet the demands of the farmers at prices not exceeding the scale fixed in the original agreement, which is extended for five years to October 1, 1905. Provision is also made in case of the termination of the agreement at an earlier date through no fault of the company, that the Inspector of Prisons shall within 60 days pay the company such amount of the original expenditure and interest as shall not then have been reimbursed them.

"FILE PHILOSOPHY" GRATIS.

HARDWARE AND METAL omitted to mention in its recent notice of the little book, "File Philosophy," published by the Nicholson File Co., that it would be supplied by the company gratis to any one upon request. Address the main office at Providence, R.I. The book is being circulated widely, and is received with the utmost favor by all interested in files and their uses; it is of very practical value, and is highly appreciated by all who receive it.

To Sherwin Williams Montreal

For 30 Years

we have been studying paint—its best composition and its best application. We have only one aim. That is to make the best paint possible. The markets of the world are open to us. If all white lead or all zinc made the best paint it would be wise for us to make it so. But experience shows that a combination of these two substances makes far better paint than either one alone. Therefore, as we are neither white lead dealers, nor zinc dealers, we use enough of each to produce the best result, and with pure oil and the best drier, we make the paints that have made us.

THE SHERWIN-WILLIAMS PAINTS

They are made in the best way and put up so they can be applied in the best manner and will give the best results. Send for our little book (it's free) and get acquainted.

THE SHERWIN-WILLIAMS CO., PAINT AND COLOR MAKERS
Canadian Dept.,
21 St. Antoine Street, Montreal

CANADA'S TRADE WITH BRITISH AFRICA.

A LETTER has been received at this office from Mr. Thos. Moffat, commercial representative at Cape Town, South Africa, for the Dominion Government, in which he states that he is devoting the whole of his time to the Canadian trade and has a building in which he keeps Canadian goods on exhibition.

It is to be hoped Mr. Moffat's efforts will bear fruit, and much fruit.

Just what Canada exports to the colony of South Africa we have no means of ascertaining. All exports to the British possessions in Africa are grouped under the heading "British Africa"; and British Africa includes rather more than a dozen colonies with an aggregate import trade of £25,652,000, and an export trade of £23,883,000. South Africa, of course, takes by far the greater portion of the small quantity of Canadian goods exported to British Africa, but it would be much more satisfactory to know just exactly the amount that was sent there. The publication in the South African returns of the figures appertaining to the goods imported from this country would be valuable to Canada as an advertisement.

In the November issue of the Department of Trade and Commerce was a report from the commercial agent in South Africa, in which he pointed out that even the returns of that colony failed to show that one cent's worth of goods had been imported from Canada.

Of course, goods were received from Canada, and Mr. Moffat's explanation of the failure of the returns to reveal the fact is that the goods were shipped via New York, and were included in the figures credited to the United States.

The figures credited to the United States in 1897 were \$13,735,670, an increase of \$1,735,670.

In his report of some months ago to the Dominion Government, Mr. Moffat points out that just as the United States has become a rival in Africa to Great Britain, so Canada in turn can become a rival to the United States. "To do this," he says, "there are a great many methods which can be adopted, but it would be well to ascertain, study and follow out the plans adopted by others. Manufacturers cannot expect foreign trade unless they are prepared to pay for it, and they are too prone to wait, and expect the Government of the day to bring the foreign buyer 10,000 miles to their very doors, or, failing that, sell their goods for them, instead of themselves grasping what is well within their reach."

What Mr. Moffat says is perfectly true.

The chief articles of import into South Africa, to which it is possible for Canada to contribute, are: Cotton manufactures, \$5,619,430; wheat, \$3,223,245; apparel and slops, \$4,315,650; carriages (carts and wheeled vehicles), \$1,506,430; coal, \$922,910; flour, \$336,480; furniture and cabinetware, \$2,036,805; meats, salted and preserved, \$902,790; machinery of all kinds, \$7,043,395; provisions, \$2,895,620; wood, unmanufactured, \$1,114,495; wood, planed or grooved, \$848,705; wood, manufactured, other than furniture, \$651,105; butter (including margarine), \$983,795; oats, \$121,925; spirits, all sorts, \$1,183,265; drugs and chemicals, \$1,441,055; dynamite, blasting compound and powder, \$1,559,830; saddlery and harness, \$567,790; leather, and boots and shoes, \$3,266,785.

According to the 1897 issue of the Dominion trade returns, among the articles Canada exported to British Africa in that year were the following:

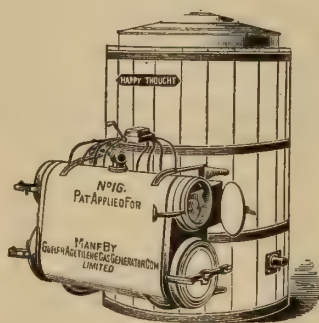
Cottons,.....	\$2,723	Harness and Saddlery,.....	\$ 576
Agricultural Implements,.....	\$11,819	Whisky,.....	90
Carriages,.....	\$4,075	Metals, other than Iron and Steel,.....	310
Carts,.....	\$4,872	Pianos,.....	163
Wagons,.....	\$1,250	Cigars and Cigarettes,.....	150
Bicycles,.....	\$7,323	Wall Paper,.....	815
Parts of Bicycles,.....	\$ 460	Household Furniture,.....	\$8,099
Other Vehicles,.....	\$3,760	Doors, Sashes and Blinds,.....	\$6,312
Clothing and wearing apparel,.....	\$ 50	Woolens,.....	\$ 601
Drugs and Chemicals,.....	\$2,545	Dry Salted Cod,.....	140
Explosives and fulminates of all kinds,.....	\$ 58	Deals, Spruce and other Lumber,.....	\$7,457
Stoves,.....	\$ 56	Planks and boards,.....	42,054
Iron Castings,.....	\$3,560	All other lumber, n. e. s.,.....	\$1,669
Machinery,.....	\$ 388	Dried Apples,.....	\$1,873
Steel and manufactures of,.....	\$ 672	Beans,.....	\$ 258
Leather, sole and upper,.....	\$1,057	Peas, whole,.....	\$ 160
Boots and Shoes,.....	\$ 740	Peas, split,.....	\$3,153
		Oatmeal,.....	\$ 865

Canada has got her toe into the trade of British Africa, and where she has got her toe, ought to be able, like Mickey Free's father, to get her head in.

ADVANCE IN WASHBOARDS.

An advance of 15 to 20c. per dozen in the price of washboards is announced.

The cause of the advance is the appreciation in the price of zinc, which has been marked the last month or two.



ACETYLENE GAS

Perfect Light

Perfect Safety

Our Machine is Automatic. Safe.

Sold only through the local Hardware and Plumbing Trades, etc.

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AT ONCE Samuel, Benjamin & Co. AT ONCE

Among the goods which we offer away below Importers' and Manufacturers' costs, are the following staple lines :

Trowels, Pointing, Plastering or Brick ; Spokeshaves ; Turnscrews : Mechanics' Steel Rules ; Try Squares, Kents & Marple's ; Bevels, Marples' ; Gauges, Gimlets, Plumb Bobs ; Saw Sets ; Saddlers' Punches ; Compasses ; Dividers ; Calipers ; Pliers, Flat or Round Nose, Nippers, Gimlet Bits, Shell Bits, Nose Bits, Spoon Bits, Centre Bits, Countersunk Bits, Turnscrew Bits, Hollow Augers, Knitting Pins, Upholsterers' Needles, Packing Needles, Awls, Steel Figures and Letters, Taper Taps, Stocks and Dies, Pipe Reamers, Timber Scribes, Level Glasses, Pinking Irons, Spoke-shave Irons, Plain Irons, Disston's Hand Saws ; Disston's Rip Saws, Braces, Stubb's H. S. Files, Shoe Rasps, Wrenches, Butter Tryers, Ham Testers, Saw Handles, Bung Borers, Iron Escutcheon Pins, Finishing Nails, Copper Tacks, Shoe Nails, Hammer Heads, Mallets, Board and Log Rules, Cartridges, Meat Cutters, Shot Pouches, Powder Flasks, Ox Balls, Cattle Leaders, Ox Bow Pins, Emery, Corkscrews, Thermometers, Dog Collars, Pruning Shears, Fish Lines and Hooks, Pencils, Kettle Ears, Iron Burrs, Hook and Eyes, Bicycle Lamps and Cyclometers, Wood Fancy Planes, Meat Cutters, Nut Crackers, Curling Tong and Waving Irons, Can Openers, Tracing Wheels, Meat Hooks, Lemon Squeezers, Halter Chains, Plumbs and Levels, Stair Rods, Wood Bench Screws, Boring Machines, Bung Spouts, 60 M Eley's Job Shells No. 12, Sash Weights, Night Latches, Rim and Mortise Locks, Rim and Mortise Knobs, Escutcheons, Keys, Butts, Lock Staples, Thumb Latches, Store Door Handles, Barn Door Latches, Door Springs, Knob Spindles, Spring Hinges, all kinds Door Bolts, Door Chains, Push and Letter Plates, Door Bells, Bell Cranks, Door Buttons, Sash Lifts, Sash Fast, Shutter Bars, Cupboard Catches and Turns, Sash Supports, Hand Rail Brackets, Shelf Brackets, Flower Pot Brackets, Hand Rail Screws, Foot Scrapers, Boot Jacks, S. D. Sheaves, Axle Pulleys, Drawer Pulls, Gate Latches and Hinges ; Chandelier, Ceiling, Bird Cage, Lamp and Coat and Hat Hooks ; Shutter Knobs, Hooks and Staples, Chest Handles, all kinds Pulleys, Wood Taps ; Pad, Chest, Till, Cupboard, Desk Locks ; Casters, Brass Hooks, Pole Ends and Rings and Brackets, Oil Cloth Binding, Stair Buttons, Curtain Pulls, Picture Hooks, Blind Hinges, Transom Lifters, Chisels, Gouges, Augers, Car Bits, Striking Hammers, Blacksmiths' Hammers, Masons' Hammers, Brick Hammers, Machinists' Hammers, Clamps, Nails, Churns, Spikes, Steel Horse Shoes, Tug and Trace Chains, Lanterns, X Cut Saws, Pumps, Nuts and Washers, Hinges, Anvils, Vises, Asbestos Packing, Rubber Packing, etc., etc.

Also Plumbers' Supplies, Tinware, and Cutlery.

It will pay any Hardware dealer in Canada to visit Toronto and inspect this stock.

Orders filled as received, and to extent of stock.

Goods are all sampled, and easily inspected.

Come at once, if you want Bargains.

H. S. HOWLAND, SONS & CO.

TORONTO.

CHAIN AND OTHER GEARS.

AT the annual meeting of the Cycle Engineers' Institute, Birmingham, an important paper on "Chain and Toothed-wheel Driving Gears Compared," was read by Professor Archibald Sharp, and in the course of his remarks the Professor observed that although the chain was generally supposed to be far the best transmitting mechanism for a bicycle, other methods, if they received due attention, might be found not very far behind. The efficiency of chain gearing, although high, did not greatly exceed that of bevel-gearing. With a good block chain running naked, the frictional loss of power might be as low as half of 1 per cent., and should never be greater than 4 per cent., while with a similar chain enclosed in an oil-bath gear-case, the loss might be as low as one-eighth of 1 per cent. and should never be greater than 1½ per cent. With roller chains the loss was even less. The chain answered all the requirements of a bicycle, but suffered in comparison with bevel gears and cross roller gears in respect of the difficulty of enclosing it in a dust-proof gear-case. In regard to their efficiency he placed the several gears in the following order: Roller chain, block chain (both in oil-bath gear-cases), bevel roller, cross roller, bevel gear, Crypto front driving gear, naked roller chain, naked block chain. In regard to durability: cross roller and bevel roller, bevel gear, Crypto front driver, roller chain and block chain. In regard to cleanliness and protection from mud: Crypto front driver, Sterling bevel gear and Harrel gear, Columbia bevel gear, Acatene bevel gear, Lloyd's cross roller and roller chain. In regard to cheapness of manufacture: Crypto front-driver, bevel gears, roller gears, and chain gears. In conclusion, the Professor said that he should be well satisfied if his paper were the means of shaking the very prevalent opinion that the chain was the only reliable power-transmitter for cycles.

"We would like our readers to take note of the estimate given above of the amount of power lost in chain driving," says an English paper, "because it emphasizes a point we have sometimes touched upon, namely the smallness of the field which is left for increasing the efficiency of the chain. Seeing that the amount of power absorbed by chain friction need never exceed 4 per cent., and may be reduced by a gear-case to as little as one-eighth of 1 per cent., or— with a roller chain—even less, what is the use of troubling about ball-bearing chains, roller teeth and like complications designed to reduce chain friction? If an ideally perfect chain were made, which absorbed no power whatever, there would be no appreciable difference in the running of a

machine as compared with one driven by a good modern chain enclosed in a gear-case. The principal forces which have to be overcome are not, we believe, the friction either of the chain or the bearings, but the resistance of the air and the resistance of the road to the passage of the wheel over it."

TRADE CHAT.

THE Hamburg-American Line intend to put on seven ships to ply between Hamburg and Halifax between April and June, carrying immigrants, mainly Galicians and Hungarians to Canada.

A despatch from Victoria, states that a prospector, Wm. Joel, arrived in that city from the Yukon on his way to Ottawa, where he intends applying for a grant of land about nine miles from Dawson City, where he claims to have discovered a coal mine.

The Farewell Hardware and Coal Co., Limited., has been incorporated with headquarters at Sault Ste. Marie; capital \$100,000. Provisional directors: - G. G. Farewell, C. F. Farewell and A. A. Farewell. The company is authorized to buy, sell and deal in hardware, fuel, lime, etc.

The Diamond Light and Heating Co., of Canada, Limited, with a capital stock of \$200,000, is seeking incorporation with headquarters at Montreal. The applicants are: H. J. Johnston, insurance manager; R. C. Miller, manager; David Ogilvy, architect; J. W. Harris, contractor; Thomas A. Morrison, merchant; Alfred Collyer, electrical engineer, and William J. McGee, electrical engineer. The purposes for which incorporation is sought are to manufacture and deal in lamps and other lighting and heating apparatus to which inventions for the use of petroleum oil can be applied.

BICYCLE TRADE IN ENGLAND.

Concerning the bicycle trade in England during the approaching season the "Engineer" of London has this to say: "Whatever the future may have in store for the bicycle trade—and we do not predict the almost utter collapse which is prognosticated in some quarters—there can be no doubt that prices of bicycles will be much lower during the forthcoming season. Some few weeks ago it was rumored that a feature of the season was to be the introduction of a \$15 American machine, but this will probably prove to be incorrect. It is stated now that as good a machine as need be ridden will be obtainable in America at prices ranging between \$25 and \$30. As these will doubtless be shipped extensively to this country, the result ought to be beneficial in bringing down the exorbitant prices which the leading home makers have hitherto obtained for their products."

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

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Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.



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BALL BEARINGS

Largest Variety, Toilet, Hand, Electric Power

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.



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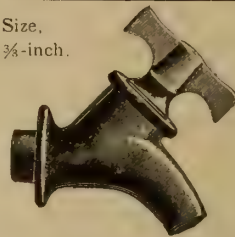
HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.



M. Laskill, Dougall & Co.
Fine Varnish & Japan
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Heavy Hardware and Metal Broker
Room 220 1/2 Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Have you **"True Brand"** in Stock?

If your Jobber does not keep it write us direct and we will send you Samples.

The **"True Brand"** is the best line of Cutlery on the market.

Our Trade Mark on every piece guarantees the quality.



This is our 1898 Roller Bearing Stand, with Double Lever Attachment.

W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.

THE

LEADER CHURN.

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.

Made Exclusively by

THE DOWSWELL MANUFACTURING CO.,
Limited

HAMILTON, CANADA

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

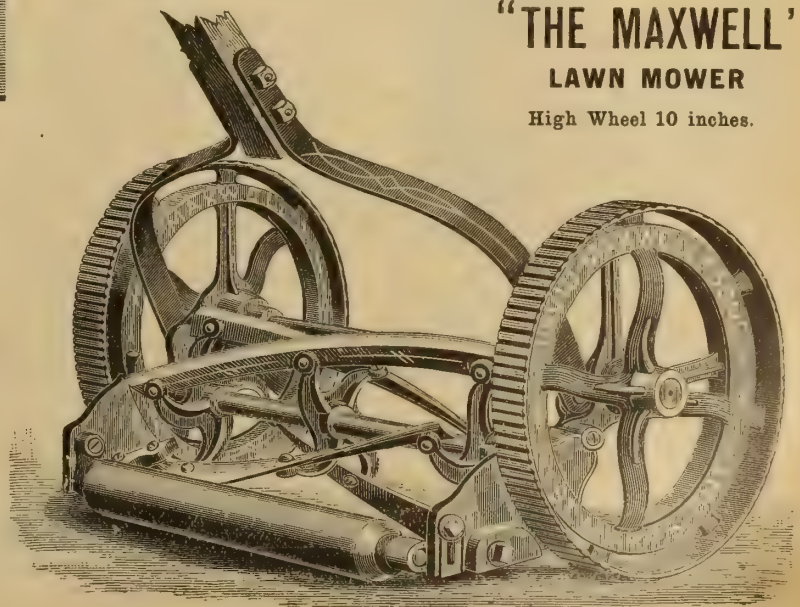
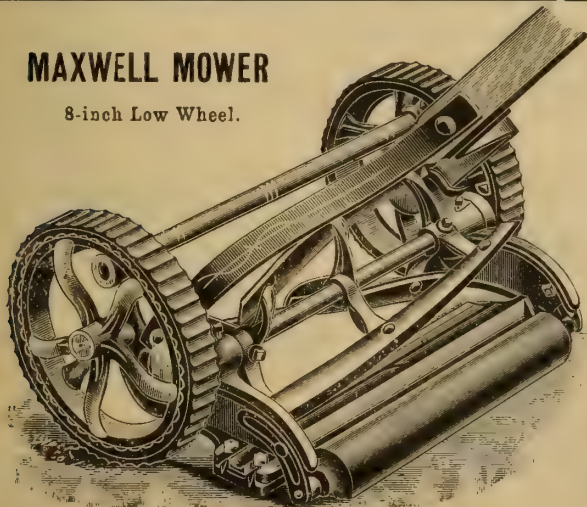
SEND DIRECT TO US.

"THE MAXWELL"**LAWN MOWER**

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, Feb. 24, 1899.

HARDWARE.

THERE has been a good movement in all lines of shelf and general hardware, and values continue to show a distinct upward tendency. In wire nails, for instance, there have been two separate and distinct advances during the week, and inquiry is brisk. Plain and barbed wire rules firm, and there is a fair movement in cut nails. The same can be said of horse nails and horseshoes. Screws and bolts are steady. Hinges have been marked up 10c. all round, and the general tenor of other values is in the same direction.

BARBED WIRE—This article continues firm, though business is light. The base price on wire is unchanged at \$2.30 f.o.b., but galvanized staples, in 100 lb., are 10c. higher, at \$3.65, with 50 lb. at \$2.90.

PLAIN WIRE—The demand for future delivery is fair and values rule stiff, as recently noted. Jobbers here are quoting Nos. 2 and 9 at \$1.85 f.o.b. Montreal, with smaller

sizes net, extras on the base price. American plain galvanized wire is stiff, the jobbing range here being: No. 9, \$2.05; No. 12, \$2.25, and No. 13, \$2.35, per 100 lb.

WIRE NAILS—These are excited, there being two separate and distinct advances in value since last report. The f.o.b. price here is \$2.05 for small and \$2 for car lots, an advance of 10c. in the week. Demand is moderately active at the rise.

CUT NAILS—There is a fairly good inquiry for cut nails, but values show no change from \$1.75 f.o.b. here.

HORSE NAILS—There is a fair trade in horse nails, and discounts remain 50 per cent. on Standard and 50 and 20 on Acadia brand.

HORSESHOES—A moderate movement is noted in these. We quote as follows: Iron shoes, light and medium pattern, \$3.15; snow shoes, \$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—A good business is reported in screws. Discounts are: Flat head bright, 85 and 5; round head do., 77 and 5;

flat head, brass, 80 and 5; round head, brass, 72 and 5. Machine screws, iron and brass, flat head, discount 25 per cent.; round head, 20 per cent.

BOLTS—In fair inquiry. Discounts are as follows: Carriage bolts, $\frac{1}{4}$ to 5-16, 70 per cent.; $\frac{3}{8}$ and up, 60 and 10; machine bolts, $\frac{1}{4}$ and 5-16, 70 per cent., and $\frac{3}{8}$ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

RIVETS—Trade is well maintained, discounts on black and tinned being 65 and copper rivets 37 $\frac{1}{2}$ per cent.

CORDAGE—Market remains quiet. We quote as follows: Sisal, 9 $\frac{1}{4}$ to 9 $\frac{3}{4}$ c. for 7-16 and upwards, and manila, 10 $\frac{1}{4}$ to 10 $\frac{3}{4}$ c.; smaller sizes, 1c. advance on these figures.

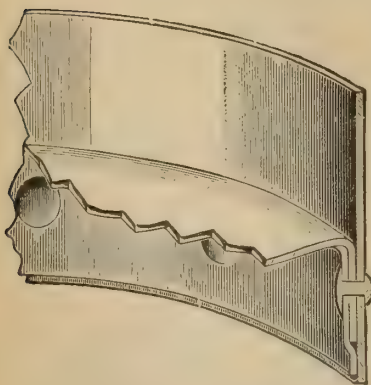
GREEN WIRE CLOTH—Business for future delivery is quite active.

HINGES—Heavy T and strap hinges have advanced 5 to 10 per cent., 10 inch and larger being quoted net at \$4. Light ditto are firm, with discounts 70 and 5 per cent. off the list.

MILK CAN TRIMMINGS

BROAD HOOP PATTERN

The Strongest Bottom Made.



Cut of section of bottom.

Inner band $\frac{1}{4}$ -inch above the outside bands.

Cannot tear away.

Nothing to wear away.

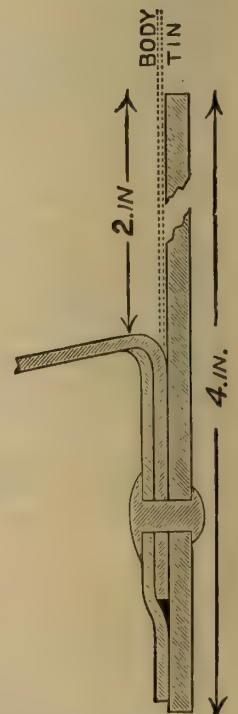
Nothing to break.

No place for dirt to lodge.

The body tin can be inserted $\frac{3}{16}$ -inch into cavity between bottom and outside band.

Solder cannot crack.

Bottom cannot spring.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The McClary Manufacturing Company

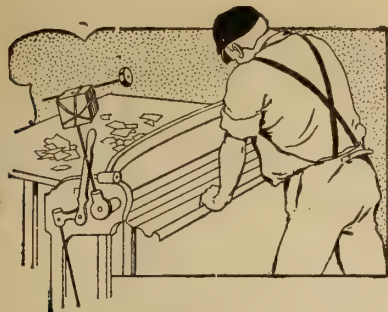
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A man, who wants to cheat his customer, can't—with Apollo galvanized iron.

No false gauging done for anybody.

Apollo Iron and Steel Company
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Cements { **PORTLAND
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Bricks . . { **FIRE
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**Coldbrook Iron and
Steel Co., Limited**

Manufacturers
of all kinds of

BAR IRON.

Gordon Wire and Wire Nail Works

Manufacturers of

Wire and Wire Nails.

We are sole selling agents in the Dominion for the above
Companies. Orders Promptly Executed.

W. H. THORNE & CO., Limited
ST. JOHN, N.B.

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

SHOT—Steady, with a fair inquiry, at 6c. for ordinary, and 6½c. for chilled.

CUTLERY—In good demand for all sorts.

CEMENT—Regular business in cement is quiet, but the Federal Government, as noted elsewhere, have closed a heavy contract for American cement. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Steady at \$18.50 to \$24, as to brand.

METALS.

The firm disposition of the heavy iron and metal market is fully retained this week, and commission men state that to close any new contracts, buyers have in many cases to give an advance, as old quotations have been withdrawn. These remarks apply both to British and United States material. On spot, however, no quotable alteration has transpired in any leading line.

PIG IRON—The market is firm and some large contracts for Hamilton iron have been closed lately at \$15.00 to \$15.50, but it is doubtful if these prices would be repeated. We quote Scotch pig at \$18.25 to \$19.50 for Summerlee and equal brands. No. 1 Hamilton, \$15.50 to \$16, and Ferrona, \$15.50 to \$16.

BAR IRON—This material is firmly held at the rise and several carload lots have changed hands at \$1.40, but for small quantities \$1.45 is the price.

HOOPS—Firm and unchanged at \$2.

SHEET IRON—Advices from England continue very firm, but spot values remain the same. We quote: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—There is a moderate business at steady prices. We quote: 10 to 16, \$2.50; 18 to 20, \$2.30; 22 to 24, \$2.45; 26, \$2.55; and 28, \$2.80.

GALVANIZED IRON—Prices are firmly held and demand is quite brisk. We quote: No. 28 "Queen's Head," \$4.25 to \$4.50, and "Comet" brand, \$4 to \$4.25.

INGOT COPPER—The strength in this metal is unabated and the range is firmly held at 18½ to 19c.

SHEET COPPER—Firm, in line with ingot, at 25c. for plain and 27c. for tinned copper sheets.

INGOT TIN—Local prices are stiff at 27c. for Straits, and the outside position has ruled much the same way.

PIG LEAD—Without any change, business ruling quiet at \$4.25.

LEAD PIPE—In fair inquiry and steady at 7c. for ordinary, and composition waste 7½c., with discounts 17½ per cent.

IRON PIPE—There is a good movement in iron pipe. We quote: Black pipe, ¼-inch, ¾-inch, and ½-inch, \$2.35; ¾-inch, \$2.80; 1-inch, \$3.85; 1¼-inch, \$5; 1½-inch-

**Ingot Tin
Copper
Spelter
Pig Lead**

Close prices on carload lots.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS
JUST BORE

NO SCREWS
FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

\$6.70, and 2-inch, \$9. Galvanized, $\frac{1}{2}$ -inch, \$3.95; $\frac{3}{4}$ -inch, \$4.80; 1-inch, \$6.65; $1\frac{1}{4}$ -inch, \$9.15; $1\frac{1}{2}$ -inch, \$11.75, and 2-inch, \$16.

CANADA PLATE—Firm, with a good demand noted. We quote: 52's, \$2.20; 60's \$2.30; 75's, \$2.40; full polished, \$3.10; galvanized Canada plate, \$4.00 for 52's.

TINPLATES—In fair inquiry and firmly held. We quote: Coke, I.C., \$3.15; charcoal, I.C., Allaway or Comet brands, \$3.50; do, I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Stiff at the rise last noted, \$6.50 per 100 lb.

COIL CHAIN—There has been an advance of 10c. in coil chain, and demand is good for all sizes. We quote as follows: No. 6, 9c.; No. 5, $7\frac{1}{2}$ c.; No. 4, $6\frac{3}{4}$ c., and No. 3, $5\frac{3}{4}$ c. per lb.; $\frac{1}{4}$ -inch, \$4.85; 5-16, \$3.70; $\frac{3}{8}$, \$3.25; 7-16, \$3.10; $\frac{1}{2}$, \$2.90; 9-16, \$2.85; $\frac{5}{8}$, \$2.80, and $\frac{3}{4}$, $\frac{7}{8}$ and 1 inch, \$2.65 per 100 lb.

SHEET ZINC—Without change, but firmly held at 7 to $7\frac{1}{2}$ c.

ANTIMONY—Quiet and steady at 10 to 11c., according to quality.

SPELTER—Unchanged at the rise, V.M., \$6.75, and S.S., \$6.50.

SWEDISH IRON—This material is very firm at a base price of \$3.75.

GLASS.

There is a good inquiry for window glass, and values are steady. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Business in paints and oils continues very active for the season, and, while there is no change in quoted values this week, all lines of material are firm in tone.

WHITE LEAD—Best brands, Government standard, \$5.87 $\frac{1}{2}$; No. 1, \$5.50; No. 2, \$5.12 $\frac{1}{2}$; No. 3, \$4.75.

DRY WHITE LEAD—\$5 in casks; kegs, \$5.25.

RED LEAD—Firm; casks, \$4.90.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6c.; No. 2, 5c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels

and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at $37\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, $13\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c.; 1-lb. tins, $15\frac{1}{2}$ c.

PETROLEUM.

In good demand We quote as follows: "Crown Acme," $15\frac{1}{2}$ c., Canadian refined, $14\frac{1}{2}$ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, $19\frac{1}{2}$ c.

ASHES.

Quiet, but steady: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Quiet. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Coil chain is 10c. higher all round and quite stiff at the rise.

Galvanized staples have been marked up 10c. on last week's range.

There have been two advances in wire nails during the week, prices now being 10c. higher.

THE LOCK TRADE.

The advance of 5 per cent. in the prices of Wolverhampton and Willenhall locks has now been very generally declared. This makes an average of $12\frac{1}{2}$ per cent. advance in the prices ruling eighteen months ago. It is, however, very questionable whether the lockmakers were not really better off at the old rates, for, in addition to the substantial advance in wages, materials have been going up in price at an alarming rate. Copper is £10 per ton dearer than at this time last year; iron is £1 per ton up, while such lock trade requisites as knobs, spindles, screws, etc., are all considerably higher. It is quite clear that so long as existing conditions prevail the advance in locks must remain, and present prospects point rather in the direction of further advances than of any possible reduction.—Hardwareman, Birmingham.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



Force
Lift
Cistern

Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
Galt, Canada.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

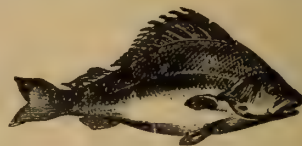
Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

Fishing Tackle.



ALLCOCK'S STAG BRAND



TRADE MARK

The Allcock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

ONTARIO MARKETS.

TORONTO, Feb. 24, 1899.

HARDWARE.

THE wholesale hardware trade in Toronto is fairly active, and the shipping-rooms are filled up with goods which have been prepared for shipment. A good deal of the goods are on Northwest and British Columbia account. The general feeling in the hardware market is a decidedly strong one, and, in view of the present condition of affairs, retail dealers would do well to keep their stocks well assorted, as every indication points to higher prices in a good many staple lines rather than decreases. Wire nails are now held firm at \$2.10, and \$2.15 for carload lots and smaller quantities respectively. Cut nails are in moderate request at unchanged prices, although there has been an advance of 5c. per keg in the United States. Horseshoes and horse nails are still quiet and unchanged. A good screw business is still being done, and stove, tire, and carriage bolts are in good demand. A feature in the tack trade is a new list, and a change in the discounts, full particulars of which are given in our editorial columns. Rivets and burrs are quiet. The same is to be said of rope. Churns, wringers, ice cream freezers, screen doors and windows, spades and shovels, and poultry netting, are being booked for future delivery. Wrought butts and heavy T and strap hinges are 10 per cent. higher. Soldering irons have been advanced 5c. per lb. Enameled ware is not in as good demand as it was, although a fair business is still being done. Stamped ware is going out well, and a good many orders are being booked for eavetroughing. Some shipments of cutlery are being made to the Northwest.

BARBED WIRE—The market is quiet, with prices firm. We now quote four point and two point barbed wire at \$2.30 per 100 lb; safety barbed wire, \$2.40; plain twisted, \$2.30. Staples are unchanged at \$2.50 per 100 lb. for galvanized, and \$2.25 for bright. The price f.o.b. Pittsburg and Cleveland is \$2.15 for single car load buyers.

SMOOTH STEEL WIRE—Bright and annealed, coppered, galvanized and tinned are now grouped together as smooth steel wire at a base price, as noted in last week's issue. Since last week, however, there has been a further advance in price, and the base figure is now \$2.05 f.o.b. factory. Extras, net. The demand is fairly good, although the season has hardly yet opened.

FINE STEEL WIRE—This includes wire of No. 17 gauge and smaller. The discount on annealed, weaving or binding is 25 per cent. f.o.b. factory. Business is fairly good.

WIRE NAILS—There has been no further advance in the price of wire nails, although

IT'S TO YOUR ADVANTAGE TO ORDER NOW.

We can supply any gauge or size of

CRIMPED GALVANIZED IRON

Made from the best English and American sheets.

For Cornice Work, etc.

Owing to the continued advance in the price of metals, you will serve your own best interest by ordering at once.

Mention quality, size and gauge required when sending specifications.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

Wholesale Manufacturers of all kind of Fireproof Building Materials.

the market is really stronger than it was a week ago. Wire rods are higher in the American market, and very difficult to get. We still quote the base price at \$2.10 to \$2.15 Toronto, for carload lots and smaller quantities respectively.

CUT NAILS—There has been an advance of 5c. per keg in the United States, but the price in Canada is unchanged at \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—The demand is light and prices are unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business is just moderate and prices steady and unchanged. We quote as follows: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—Business in this line continues to be of a most satisfactory nature and prices are firm at quotations. We quote discounts as follows: Flat head bright, 85 and 5 per cent.; round head bright, 77½ and 5 per cent.; flat head brass, 80 and 5 per cent.; machine screws, round head, 20 per cent.; flat head, 25 per cent. Terms are unchanged at 4 months or 3 per cent. 30 days.

TACKS—Manufacturers have issued a new list, and have also made a change in the discounts, as is noticed in detail elsewhere.

BOLTS—Trade in carriage and tire and stove bolts continues good for this time of the year. Prices are unchanged. We quote as follows: Common carriage bolts, 5-16 inch, 70 per cent.; ditto, ¾ and

larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 5-16 and under, 70 per cent.; do., ¾ and larger, 65 and 10 per cent.; coach screws, 75 and 10 per cent.; blank bolts, 60 and 10 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, all sizes, 4¾c.; hexagon, 5¼c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—Trade is just steady, but devoid of any particular features. We quote: Carriage section, wagon box rivets, etc. (steel), 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Trade is about as quiet as ever. The outside markets are stronger on hemp, but no change has been made in the price of the manufactured article. We quote: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Orders are being booked for future delivery. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Stocks now in jobbers'

hands appear to be fairly complete, but there is not a great deal of business being done. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—There is still a fairly good business being done for future delivery, and the price is unchanged at \$1.20 per 100 square feet.

SCREEN DOORS AND WINDOWS—A good many orders are being booked for these.

POULTRY NETTING—Quite a number of orders are still being booked for future delivery, and shipments are being piled up in the shipping-rooms and ready to be sent to their destination. The discounts are 50 and 5 per cent.

CUTLERY—A good deal of cutlery is being prepared for shipment to the Northwest and British Columbia.

BRASS ESCUTCHEON PINS—These have been advanced in price, and are now quoted at a discount of 50 per cent.

BARN DOOR HINGES—The large quantity of barn door hinges which have been sold so far this season, makes it evident that there is going to be a good deal of barn building later on, or else retail dealers are anticipating an advance in prices.

WROUGHT BUTTS AND HINGES—There has been an advance in wrought butts, the discount now being 70 and 10 per cent. Heavy T and strap hinges are both sold at the same price, as follows: 4-in., 5c. per lb.; 5-in., 4¾c. per lb.; 6-in., 4½c. per lb.; 8-in., 4¼c. per lb.; 10-in. and larger, 4c. per lb.

SOLDERING IRONS—These have been advanced in price, and are now quoted at 30c. per lb., instead of 35c. per lb., as before.

BRASS BUTTS—There has been an advance in these, the discount now being 20 per cent.

WARE—Enameled ware is going out fairly well, although there is no special demand for it. There is a good demand for stamped ware, dealers apparently ordering earlier than usual. The expectation of an advance in price is probably the cause of this.

EAVETROUGHING—A good many orders are being booked, but shipments will not be made till April 1.

METALS.

The metal market is all round firmer than a week ago. Even tin, which during the last two previous weeks has been showing some weakness, has again taken an upward turn.

PIG IRON—We do not hear of any business being done, but prices are firmer. Advices from Pittsburg note an advance of \$1 per ton in the Valley price of Bessemer

pig iron. Steel billets have advanced nearly \$2 a ton.

BAR IRON—Business is fair, and prices are 10c. per 100 lb. higher. We now quote \$1.55 from stock and \$1.45 from factory.

BLACK SHEETS—Telegraphic advices, from manufacturers in the United States, to shippers here, note an advance of 15c. per 100 lb. in the base price of black sheets. Although jobbers' quotations here have not been changed, yet prices are being more firmly adhered to than they were. There is not much business being done, however.

GALVANIZED IRON—Business is still good. While most of the orders are being booked for future delivery, most of the orders now being received are for prompt shipment. Jobbers, however, are not inclined to accept orders except for prompt shipment. "Queen's Head" brand has been advanced 15c. per 100 lb., and we now quote: "Queen's Head," 16 gauge, \$3.90; 18 to 24, \$4.15; 26 gauge, \$4.40; 28 gauge, \$4.65. American makes, 16 gauge, \$3.50; 18 to 24, \$3.65; 26 gauge, \$3.90; 28 gauge, \$4.25. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. Less than case lots are quoted 25c. per 100 lb. higher than above figures.

COPPER—The market for ingot copper remains steady, and some business is being done. Supplies are beginning to get a little scarce. Tinned copper and planished sheets are quoted higher, the former at 26c. per lb., and the latter at 32c. per lb. This is an advance of 3c. Coppered pits show an advance of 5c. per lb., and we now quote plain at 28c. per lb., and spun at 32c.

PIG TIN—The market for pig tin has again developed some strength, and the tendency of prices are upward. On Tuesday, prices advanced £1 15s. in London, England, for the day. Local quotations are unchanged, at 28c. for Lamb and Flag, and 27½c. for Straits.

TIN PLATES—There is a little movement in this line, but the volume of business is light.

PIG LEAD—The market continues strong, although there have been no further changes, the idea as to price being 4¼c. per lb.

LEAD PIPE—Business is moderate. We quote: Ordinary pipe, 7c.; waste, 7½c. Discounts, 17½ per cent.

IRON PIPE—There has been an advance of about 5 per cent. in the price of both black and galvanized iron pipe. We now quote as follows: Black pipe, per 100 lb, ¼ to ½ inch, \$2.35; ¾ inch, \$2.80 to \$2.95; 1 inch, \$3.85 to \$3.95; 1¼ inch, \$5.10 to \$5.30; 1½ inch, \$6.75 to \$6.90; 2 inch, \$9.10. Galvanized, ½ inch, \$2.45; ¾ inch, \$5.40; 1 inch, \$7.35; 1¼ inch, \$10.95; 1½ inch \$13.15; 2 inch, \$17.85.

THE CANADA PAINT COMPANY LIMITED

OIL,
ZINC,
GLUE,
OXIDE,
PUTTY,
BORAX,
STAINS,
DRYERS,
SMALTS,
FILLERS,
BRONZE,
WHITING,
SHELLAC,
GRAPHITE,
RED LEAD,
VERMILION,
VARNISHES,
GOLD LEAF,
KALSOMINE,
RAW UMBER,
RAW SIENNA,
LINSEED OIL,
TURPENTINE,
LAMP BLACK,
PARIS GREEN,
TUBE COLORS,
TOP DRESSING,
LIQUID PAINTS,
BURNT UMBER,
BOAT VARNISH,
BURNT SIENNA,
PUMICE STONE,
ROOFING PAINT,
YELLOW OCHRE,
GOLDEN OCHRE,
HOUSE VARNISH,
COACH VARNISH,
SHINGLE STAINS,
BICYCLE ENAMEL,
CHROME YELLOW,
GOLD SIZE JAPAN,
GRAINING COLORS,
PURE WHITE LEAD,
DOMESTIC COLORS,
ULTRAMARINE BLUE,
STOVE PIPE VARNISH,
WINDOW BLIND GREEN,
LIQUID COACH COLORS,
PURE PREPARED PAINTS,
TRIPLE STRENGTH COLORS,
SUPERFINE COACH COLORS.



Everything for

THE DECORATOR
THE POLISHER
THE FINISHER

THE CANADA PAINT COMPANY LIMITED

Cast soil, 2, 3, 4, and 5 inch, 60, 10 and 5 per cent.

RANGE BOILERS—A fair business is still to be noted. We quote: Galvanized, 30 gals., \$5.50; 35 gal., \$6.50; 40 gal., \$7.50; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

TINNED IRON—Prices are unchanged. We quote: 30 x 72 (24 gauge) at 6c. per lb.; cut sizes, 5¼c. per lb.

COIL CHAIN—The improvement noted in business last week in the heavier sizes for logging purposes has been maintained and prices are unchanged. We quote as follows: 3-16 in., \$7; ¼ in., \$6; 5-16 in., \$3.50; ¾ in., \$3.15; 7-16 in., \$2.95; ½ in., \$2.80; ⅝ in., \$2.70; ¾ in., \$2.60.

SHEET ZINC—There has been a further advance of ¼c. per lb. in the price of zinc sheet, and we now quote 8c. for cask lots and 8¼c. for part casks.

ZINC SPELTER—Business is fairly good, and prices are again higher, now being quoted at 7 to 7¼c. per lb.

SOLDER—There is a fair trade being done, and prices are firm at 16¼ to 17¼c. for half-and-half; 16¼ to 16¾c. for refined, and 15¼ to 16¼c. for wiping.

ANTIMONY—The market remains firm at 11 to 11½c. for Cookson's.

PAINTS AND OILS.

The market continues bright and lively. The strengthening of values has given impetus to trade, and all manufacturers report very heavy books for spring shipment. One large color-house is urging its customers to take deliveries in March, instead of April or May, as a serious congestion is feared when the active spring rush commences, and delay may ensue. White lead is firm at the \$6 basis, and red lead and zinc are being disposed of freely at the enhanced quotations. Orange mineral has advanced 1c. Varnishes and gums are firm. One New York operator reports that clean choice parcels are in great demand, and are quickly disposed of. No special change is noted in colors or painters' sundries, but the general outlook may be said to be firm, with quite a brisk demand. Manufacturers here report that paris green has been rather sluggish, as jobbers are pretty well supplied. It is thought, however, that a new demand may commence very soon. Prices may advance. Turpentine is firm at the present price, 68c., and is likely to hold steady at this figure. Any change will likely be upward. Prices in Savannah are firm. Linseed oil is in about the same condition as turpentine. It may advance, but will hold firm anyway.

16 Governments.
85% R.E., 70% U.S. Contracts.
70% of Total Production of America.

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76,800 Daily Production.
5 Factories.
5 Brands.

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BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers' of POLISHED PLATE, SILVERED PLATE, BEVELLED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS. Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—178 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 68c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The Belgian market has again advanced, and is now 5 points higher than six weeks ago. The feeling here is consequently strong. Some houses have already stopped

taking import orders; others have sent out notices that their quotations for these orders only hold good to the end of February. A large import business has been done by some of the houses this year. The demand from stock is good, but the stocks are getting very much broken. Prices are unchanged. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

No change is reported. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 8c. per per lb.; bottoms, 8c.; heavy copper, 8¼ to 8½c.; light scrap brass, 4 to 4½c.; heavy yellow scrap brass, 6c.; heavy red scrap brass, 7½c.; scrap lead, 2½ to 2¾c.; zinc, 2¼c.; scrap rubber, 3½ to 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES—The market is weak, but no change in prices is noted. We quote cow hides as follows: No. 1, 8½c.; No. 2, 7½c.; No. 3, 6½c.; cured, 9¼c. Steer hides are worth ¼c. more.

SKINS—We quote calfskins nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins and lambskins are steady at 90c. to \$1.

WOOL—There is no change. Fleece is unsteady at 15c., and unwashed easy at 10c.

SEEDS.

There is little doing. Red clover is worth \$3 to \$3.50, and alsike \$2.50 to \$4, outside. So little timothy is offered that shipments are being brought in from western United States markets. Bright, unhulled lots are nominally worth \$1.60 to \$1.75; machine-threshed, \$1 to \$1.25.

COAL.

The price continues unchanged. The famine in nut gets steadily worse, and the recent storms in the United States have con-

siderably delayed shipments of all sizes. Coal and other non-perishable freights have been side-tracked to make way for passenger and perishable freights. We quote anthracite at Buffalo and bridges: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

PETROLEUM.

Business is active. Prices are steady. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogem, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

Orange mineral is 1c. per lb. dearer.

Black and galvanized iron are both 5 per cent. dearer.

Soldering irons are quoted 5c. per lb. higher at 30c. per lb.

The base price of black sheets has been advanced 15c. per 100 lb.

Both zinc sheets and zinc spelter are quoted 25c. per 100 lb. higher.

Wrought butts and heavy T and strap hinges have been advanced 10 per cent.

Brass escutcheon pins are dearer, the discount to retailers now being 50 per cent.

"Queen's Head" brand galvanized iron shows an appreciation of 15c. per 100 lb.

Copper pitts are 5c. per lb. dearer. Tinned copper and planished sheets are 3c. per lb. higher.

A new list has been issued by the tack makers. The discounts have also been changed.

Another advance of 5c. per 100 lb. has been made in the base price of smooth steel wire. The discount on fine steel wire is now 25 per cent. at factory points.

CATALOGUES, BOOKLETS, ETC.

HARDWARE AND METAL has just seen a copy of the brush catalogue for 1899 issued by Meakins, Sons & Co., of Montreal and Hamilton. It is a neat and compact book, and contains a list of brushes of every conceivable description, all of which are manufactured by this firm. The firm has made so many additional lines for this year that the list is fifteen pages larger than ever before.

WROUGHT BUTTS AND HINGES DEARER.

The price of wrought butts and hinges has been advanced. The discount on wrought butts is 70 and 10. Heavy T and strap hinges are both quoted at the same figures, as follows: 4 in., 5c. per lb.; 5 in., 4¾c. per lb.; 6 in., 4½c. per lb.; 8 in., 4¼c. per lb.; 10 in. and larger, 4c. per lb.

The advance is about 10 per cent.

NEW YORK METAL MARKETS.

PIG TIN—Nearly all the tin that has arrived here since February 17 has been absorbed, and stocks in store were drawn upon also. The movement was mostly in the form of deliveries to consumers, but included some purchases by interior jobbers. Nothing in the nature of purely speculative movement developed here, but London cables indicated a large turnover there, and quoted an advance in prices of £1 15s. for the day. Here, 5-ton lots were sold at 24c., and smaller quantities at about the usual difference, but holders asked about 0.10 to 0.15 advance on those figures at the close.

COPPER—The market seems to be gradually getting into more normal condition. London speculators continue to see-saw prices, and the surface indications are that their manipulations are conducted so as to have greatest influence possible upon the market for mining shares. About 18c was the popular quotation on Lake Superior ingot, but some authorities intimated that purchases could have been made at a fraction less. About 17½ to 17¾c was named for electrolytic bars, etc., and 17 to 17¼c for ordinary casting stock.

PIG LEAD—Dealings here were chiefly in moderate quantities and of merely fair amount. The market showed quite good tone, however, since offerings were more reserved than they have been for several days, and sellers' views higher on large quantities than on carload lots. Some business was put through at 4.45c., but that price was bid at the close, and 4.45c. asked for early deliveries. The foreign market was a fraction lower.

SPELTER—There was no sign of any reaction from the highest price, ¼s. established yesterday. To the contrary, the strong tone of the market seemed more compact, since inquiries failed to locate other than unimportant small quantities obtainable at less than 6½c. on the spot or for early delivery here.

ANTIMONY—Supplies continue moderate, and prices remain firm at 9¾ to 10½c., according to brand and quantity.

TINPLATE—There was no radical change in the market. Buyers have, to all appearance, become more accustomed to the high plane of prices established recently, but many have their wants for some time to come well covered, and the buying at present is only fair.

IRON AND STEEL—Pig iron is somewhat quieter in this market, and reports from other points are tamer. Still, evidence is not wanting that a considerable amount of iron is being placed, and prices are certainly very firm all along the line.

Old material is selling in moderate quantities only, owing to lightness of stocks here, but prices are very firm throughout.—New York Journal of Commerce, February 22.

WIRE CLOTH HOLDERS.

How to best display the goods carried is one of the important questions with the up-to-date hardware dealer nowadays.

Therefore, the B. Greening Wire Co., Ltd., Hamilton and Montreal, have made a move of benefit to their customers as well as to themselves in putting on the market two styles of holders for their wire cloth. The large holder holds eight rolls, the small size four (either 50 or 100 feet rolls, all sizes up to 36 inch). The prices are \$7.35 and \$5. It is claimed that these holders will pay for themselves in one season, as they keep the cloth in perfect condition, and save the ends, which are otherwise wasted, and also save time in serving a customer.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.

The DETECTIVE AND CONFIDENTIAL AGENCY.

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Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements, Lost Friends Located; Legal and Private Reports; Movements of Employees or Friends.



FOR
**Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps**
Everything in the stamp line.

SEND TO
**Hamilton Stamp & Stencil
DATE. 25c. Works, Hamilton, Ont.**

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.
Spramotor Company,
London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,
W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd 1896, and in the presence of the Board of Control of the Fruit Experimental Station of Ontario, in which there were seven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 12-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

IRON VS. STEEL GALVANIZED SHEETS.

A letter in The British Trade Journal, signed by John N. Lester, says: "This is at the moment a most important matter to Australia and South America, and, though it has had but little consideration by the colonies, it will, in a very short time, be brought before them in a most unpleasant, but practical manner.

"For many years foreign buyers of galvanized iron sheets had been supplied by Staffordshire makers with galvanized corrugated iron sheets, and these gave entire satisfaction, for the simple reason that they answered the purpose for which they were required, and lasted for thirty or forty years or more. During the last few years, however, other districts have been competing for this trade, and are manufacturing their corrugated sheets out of steel, which sheets can, through the peculiar manner of manufacture, be made at a much less cost, and, though to the eye galvanized corrugated steel sheets may look superior to those of iron, it is a fact that they will not last a quarter of the time that iron sheets will; for this reason: the surface of an iron sheet is naturally rough, and "takes and "holds" a heavy coating of spelter. This naturally preserves the iron, whereas steel sheets, having a very fine, smooth surface, only take a very light coating of spelter, and the surface of the steel is so smooth that even this coating of spelter will scale off in places. Thus the steel becomes exposed to the atmosphere, and in a very short time corrodes through. It is a well-known fact that thin, soft, steel, when exposed to the atmosphere, corrodes away much more quickly than wrought iron.

"I would suggest that buyers of galvanized corrugated sheets should buy only those that are guaranteed iron. By so doing they would protect themselves from much loss, and great annoyance."

WHAT MAY HAPPEN.

There is a story, says an exchange, of two thieves fighting over a donkey. The altercation originated in discussing the disposition to be made of the animal—whether or not it should be sold. While they were contending together, a third robber came up and rode the donkey away. Such a tale might apply very well to hot-headed concerns which are so bent on keenly competing with one another that they are oblivious to the fact that someone else is carrying off the business, a turn of affairs which is by no means impossible.

The building of Higgins & Webster, general merchants, Roland, Man., has been destroyed by fire; stock saved.

Warnock's



Axes, Edge Tools and Lumbering Tools
are superior to anything else made or used in
Canada. Always buy "Warnock's."

James Warnock & Co., - Galt, Ont.

Brushes . .

— FOR THE SPRING TRADE.

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is now out.

Don't Fail to See Our Prices

before placing your Spring Order.

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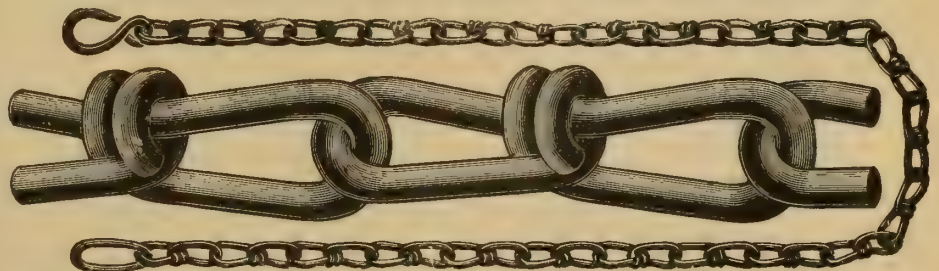
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IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

WHEELBARROWS

all kinds.

MASONS' HODS

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SKIDS

WASHING MACHINES

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English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

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B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

PERSISTENCY.

A PROVERB which should be taken to heart and mind more often is that one which intimates that persistency triumphs against well-nigh insuperable obstacles, says Portland Tradesman. There should be a feeling nourished that all improvement and progress must necessarily be gradual in order to be permanent. A sudden spurt, which may serve on the race track to bring a horse under the wire a head or so before the favorite, steadily pegging away, will not serve in the ethics of business without the cooperation of many favorable conditions which usually exist only for the favorite few.

At the beginning of a career or the commencement of a business venture no one can safely predict what its outcome will be. Many men who have started in life under the most auspicious circumstances have been known to fail from a lack of foresight at some critical moment, or an imprudent step which they have found impossible to retrieve. Such instances are plentiful enough to make one perceive that such failures are partly due to a feeling of superiority which is too frequently cherished by those whose progress has been facilitated by inherited wealth, or the prestige of a good name descended from ancestors, or the opportunity to step into a thriving business of a predecessor. Men who are so advantageously situated believe themselves favored sons of the gods and are prone to imagine that they can prosper without effort on their own part. In truth, their opinion of themselves may grow to such gigantic proportions that they feel their talents may be exercised without much application or serious thought. Their elation over their present success blinds them to the proceedings of others; they think that the momentum which their business has attained will carry it on by itself.

The deterioration which occurs most inevitably is caused by the lack of persistency and perseverance which are requisite to maintain a position after it is once gained. It is absolutely essential to the healthy growth of a business that almost an equal amount of vigilance be exercised after the height is attained as was necessary when the struggling was undergone to secure a permanent footing.

There are in contrast to those who have been shown a partiality by Dame Fortune a goodly number who have risen without any assistance whatever except that obtained by their own natural ability. United to this were persistency and an unerring judgment which made the most of every opportunity, and even created the latter where it did not occur. Moreover, wise men frequently take advantage of competitors' shortcomings to

rise on the strength of merit which is always recognized wherever it appears. There is always an opening for genuine ability to display itself if it exists; therefore every preparation should be made to step into breaches which are left open in the enemy's defenses.

BELGIAN GLASS EXPORTS IN 1898.

We are indebted to The Moniteur Industriel, of Charleroi, for the following statistics on the Belgian glass exports in 1898: The exports of window glass amounted to 152,948,784 kilograms (1 = 2.2 pounds), as against 149,251,775 kilos in 1897 and 153,476,414 kilos in 1896. The total export of window glass, it will be seen, has remained almost stationary during the last three years; the increase, at least, has been comparatively slight. The Belgian exports of window glass to the United States were as follows:

1898.	1897.	1896.
Kilos.	Kilos.	Kilos.
21,232,572.	19,414,432	23,219,431

The decrease in the exports to the United States, as compared with 1896, was approximately 2,000,000 kilos, or about 10 per cent. The Belgian exports to Canada for the past three years show some irregularity, the amount rising from 5,737,922 kilos in 1896 to 7,296,242 kilos in 1897, and declining from the latter figure to 6,097,097 kilos in 1898. The only country taking a larger quantity of Belgian window glass than the United States was Great Britain, which imported 56,139,556 kilos, or about one-third of the total Belgian exports.

The exports of plate glass in 1898 were valued at 22,336,910 francs, as against 18,806,096 francs in 1897, and 17,343,342 francs in 1896. The exports to the United States declined from 1,262,135 francs in 1896, to 896,545 francs in 1897, and to 526,716 francs in 1898, or, comparing 1898 to 1896, a decrease of about 150 per cent.

The exports of ordinary glassware have shown little change, being stationary for each year at about 24,500,000 kilos, of which, each year, an amount of 450,000 kilos went to the United States.

Green glass articles were exported in 1898 to the amount of 267,610 kilos, fancy glassware, 399,632 kilos.—American Manufacturer.

GEORGE C. MORRISON DEAD.

George C. Morrison, manufacturer of engines, boilers, etc., Hamilton, passed away on Monday after a few days' illness from brain fever following an attack of grip. He left a widow and family. He was proprietor of the machine shop at the foot of Caroline street for 30 years.

LIMESTONE IN THE IRON INDUSTRY

The limestone consumed for fluxing purposes by the blast furnaces in the United States in 1897 in the production of 9,652,680 gross tons of pig iron amounted to 4,247,688 gross tons, according to The Bulletin of the Iron and Steel Association, of which 3,680,666 tons were consumed by the bituminous coal and coke furnaces in the production of 8,464,692 tons of pig iron; 524,271 tons by the anthracite and mixed anthracite and coke furnaces in the production of 932,777 tons, and 42,751 tons by the charcoal furnaces in the production of 255,211 tons. The average consumption of limestone for the whole country per ton of pig iron produced in 1897 was a little over .44 of a ton. The total quantity of limestone similarly consumed in 1898 in the production of 11,773,934 tons of pig iron was 5,275,819 tons, of which 725,729 tons were consumed in producing 1,203,273 tons of pig iron made with anthracite and mixed anthracite coal and coke; 4,502,209 tons were consumed in producing 10,273,911 tons of pig iron made with bituminous coal and coke, and 47,881 tons were consumed in producing 296,750 tons of pig iron made with charcoal. The average consumption of limestone for the whole country per ton of pig iron made in 1898 was almost the same as in 1897, the figures being .448 of a ton, or about .008 of a ton more than in 1897.

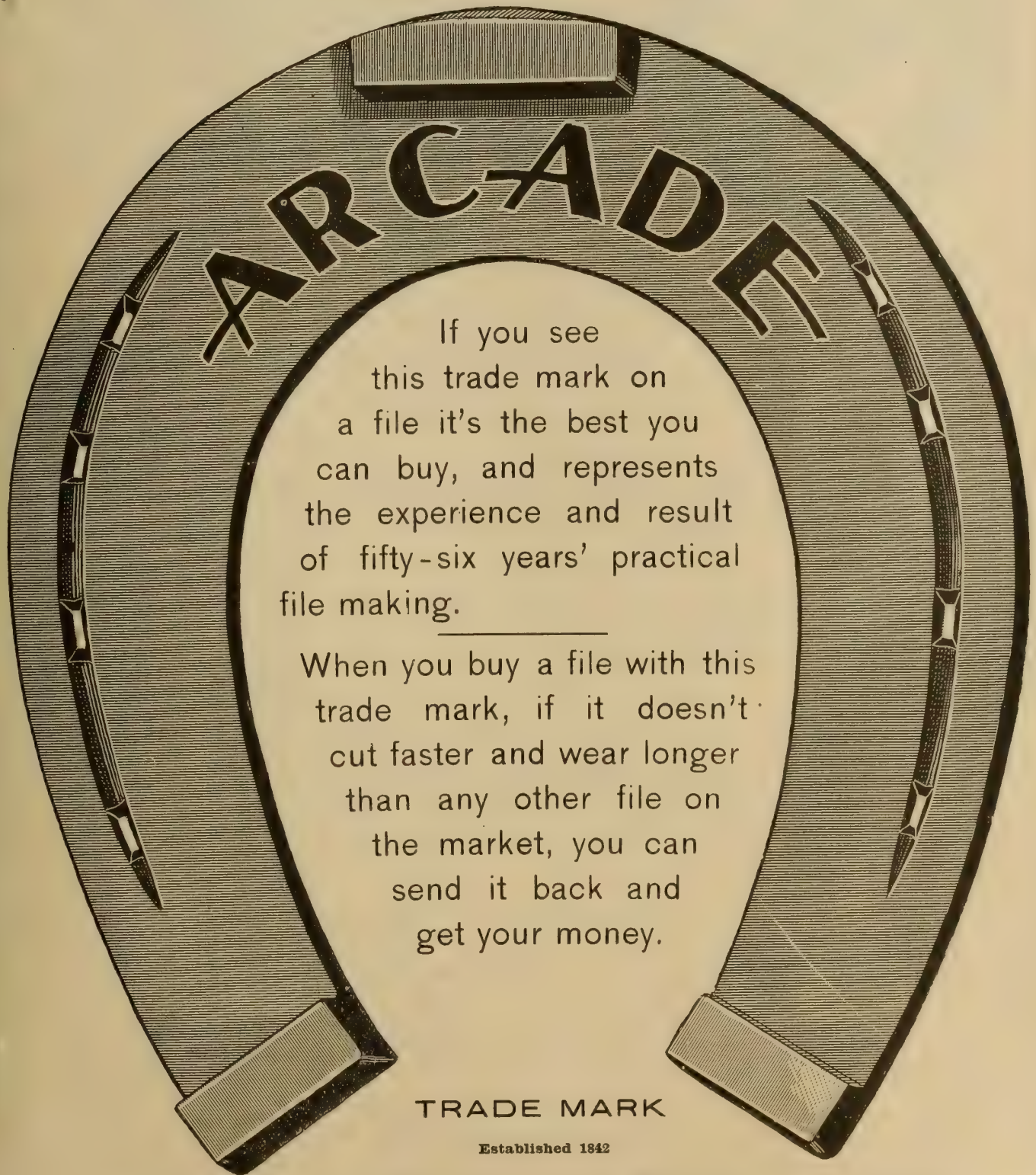
NATURAL POLISHING PADS.

The secret of keeping silver plate in polish is known to comparatively few people not in the trade. As a matter of fact, it is an industry which, in England, affords a livelihood to a large number of persons, chiefly girls, in London, Sheffield, Birmingham and other great centres. The big manufacturers of plated articles keep a large permanent staff of plate polishers at work, and an important part of their duty is to pay periodical visits to retailers who deal with their employers and clean up all their stock of plate. The method of cleaning, says The London Daily Mail, is curious. The chief feature of it is using the ball of the thumb as a polishing pad. With this wonderfully well-suited natural pad and a little rouge powder these practiced polishers produce miracles of shininess. The dullest of metal quickly takes on a mirrorlike polish under the hands of a good work girl, whose muscles, through long use, become almost untiring.

G. I. Lettens & Bro., and G. F. Stone, general merchants, Digby, N.S., have been burned out.

Fifty-Six Years Making Files

We ought to know how.



If you see
this trade mark on
a file it's the best you
can buy, and represents
the experience and result
of fifty-six years' practical
file making.

When you buy a file with this
trade mark, if it doesn't
cut faster and wear longer
than any other file on
the market, you can
send it back and
get your money.

TRADE MARK

Established 1842

THE ARCADE FILE WORKS

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

Works, ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their local mills and factories. Special discounts to the trade. Write to-day

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

J. H. BRODEUR, general merchant, Varennes, Que., is endeavoring to effect a settlement.

J. A. Plamondon, general merchant, Wotton, Que., has assigned.

A. G. Hannon, harness dealer, Union, Ont., has assigned to Isaac Hannon.

Assignment has been filed by Joseph Jacob, contractor, St. Henri de Montreal.

J. T. Pouliot, general merchant, L'Islet, Que., has compromised at 50c. on the dollar, cash.

Ed. Tremblay, general merchant, St. Paul's Bay, Que., has compromised at 15c. on the dollar, cash.

T. Provost (late Provost & Fleury), hardware dealer, Montreal, is offering 50c. on the dollar, cash.

PARTNERSHIPS FORMED AND DISSOLVED.

Joseph Martin & Sons, sawmillers, Harrison, B. C., have dissolved.

Craig Bros., blacksmiths, Nanaimo, B. C., have dissolved, Wm. S. Craig continuing.

R. G. Hamilton, hardware dealer, Carman, Man., has admitted R. J. McConnell.

Ecclestone & Ramsay, hardware dealers, Bracebridge, Ont., have dissolved, G. W. Ecclestone continuing.

Munn & Miller, bicycle dealers, Vancouver, B. C., have dissolved, Munn retiring; style now Miller & Co.

Grant & Campbell, dealers in agricultural implements, Woodville, Ont., have dissolved, Grant & Grant succeeding.

Sims Bros., general merchants, Little Current, Ont., have dissolved, and have been succeeded by Thos. Sims & Co.

Samuel J. Kendall and Walter E. Solomon have registered as partners under the style of Kendall & Solomon, general merchants, Lawrenceville, Que.

The Blind River, Ont., Lumber Co., have dissolved, Raemer Wigle retiring, and the remaining partner continuing the business under the same style.

SALES MADE AND PENDING.

The assets of A. Pallascio, hardware dealer, Montreal, have been sold.

The assets of J. A. Fauteux & Co., hardware dealers, Ste. Cunegonde, Que., have been sold.

Baily & Claveau, general merchants, Chicoutimi, Que., have sold their stock at 57c. on the dollar.

The stock, etc., of Alphonse Gaumond, general merchant, St. Jean des Chaillons, Que., have been sold at 64½c. on the dollar.

CHANGES.

G. H. Goslee, bicycle dealer, Colborne, Ont., has sold out to W. W. Brown.

T. F. Robinson, general merchant, Leamington, Ont., has sold out to Skinner Bros.

W. W. Melburn, general merchant, Moira, Ont., is removing to Tamworth, Ont.

John Atkinson, blacksmith, etc., Vienna, Ont., has been succeeded by J. P. Marlatt.

J. Smelser, carriagemaker, Nanticoke, Ont., has been succeeded by G. Livingstone.

The Middleton Marble and Granite Co., Limited, Hamilton, Ont., has been incorporated.

The Farwell Hardware and Coal Co., Limited, Sault Ste. Marie., has been incorporated.

Alex. Armstrong, blacksmith, Carman, Man., has sold out to Wm. Wilson, of Treherne, Man.

Strome, White & Co., general merchants, Brandon, Man., is opening a branch at Wolseley, N.W.T.

P. E. Beaulieu & Fils, general merchants, St. Flavie Station, Que., are removing to Salmon Lake, Que.

The Grand Forks Mercantile Co., general merchants, Grand Forks, B.C., has sold out to Hunter Bros.

FIRES.

J. E. Birch & Sons, hardware dealers; C. W. Johns, carriagemaker, etc., and Laurie

& Bond, blacksmiths, Roland, Ont., have been burned out.

DEATHS.

James Wright, of James Wright & Co., wholesale and retail hardware dealers, etc., London, Ont., is dead.

THE ELASTICITY OF METALS.

SOME interesting information, according to an English paper, was given at a meeting of the Institution of Junior Engineers, London, England, by Professor Ewing, in the course of his lecture on "Measurements of Elasticity." After referring to the methods for determining the amount of elasticity, he went on to describe the imperfectly elastic condition into which iron or steel is thrown by overstraining it. Immediately after being overstrained and when the load is removed, the piece on being reloaded cannot be said to have any elastic limit. But as time passes the elasticity comes back, and after an interval of a few days in the case of wrought iron, or of many weeks in the case of steel, it is found that the material has practically perfect elasticity up to a limit which may be much higher than the primitive elastic limit. Curves were exhibited to show the progressive recovery of elasticity in overstrained materials through the lapse of time. The experiments described had been made by Mr. Muir in the lecturer's laboratory at Cambridge, using the Ewing extensometer. Mr. Muir had tested the effect of heated overstrained metal to moderate temperatures, and had made the remarkable discovery that a bar of overstrained iron or steel is completely restored to a perfectly elastic state by being exposed for a few minutes to the temperature of boiling water or steam. By alternately heating the bar in this way, and loading it just beyond to its new limit of elasticity so as slightly to overstrain it, a piece of mild steel may be made to break with scarcely any total elongation and to show an extraordinarily high range of elasticity and ultimate strength.

White Mountain Freezers



WHITE Mountain Freezers represent three virtues that every dealer ought to burn into his memory—Leadership, Profit, Satisfaction.

More **White Mountain Freezers** are sold than of any other make. They are first in sales, first in convenience, first in durability, first in the favor of the public.

They give satisfaction to the owner, and they are of so high a character that they command a price upon which the dealer can realize a good profit.

Profit to you—satisfaction to your customers. That is what it means to sell **White Mountain Freezers**. No dealer can ask for more, and no manufacturer can give more.

Our Agents in the Dominion are . . .

THE MCCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

Sole Manufacturers

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

MANITOBA MARKETS.

WINNIPEG, Feb. 21, 1899.

It is many a long day since one week has witnessed so many changes in a list of hardware prices. With the single exception of rope, all the prices are in advance of previous figures; with rope there is a decided downward tendency. The lines for which new quotations are given this week are barbed wire, wire nails, cut nails, bar iron, ingot tin, zinc and screws. In last list a slip was made, and solder quoted at 28c. instead of 18c.

Business is improving very rapidly, and wholesale houses are very busy filling and getting out orders.

The bicycle trade promises to be heavy this season. One house has already disposed of two carloads, and has a third on the way.

The large number of good buildings projected for the coming season will make the demand for building hardware and supplies large. In addition to the buildings in Winnipeg, a large number of good houses, and more particularly good barns, will be erected in the country during the coming season. The agricultural implement houses also anticipate a largely increased trade, and are preparing accordingly.

Price list of the week is as follows:

Barbed wire, 100 lb.	\$2 75
Plain twist	2 75
Wire and staples.	3 25
Oiled annealed wire.	2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	2 65
" 16 and 20	2 70
" 10	2 75
" 8	2 80
" 6	2 85
" 4	3 05
" 3	3 30
Cut nails, 50 and 60 dy.	2 40
" 20 to 40	2 45
" 10 to 16	2 50
" 8	2 55
" 6	2 60
" 4	2 85
" 3	3 10
" 3 fine	3 40
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes.	4 25
Steel, light.	4 00
" extra light.	5 75
Bar and band iron, \$2.10 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lbs.	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lbs.	3 50
26 gauge.	3 75
28 gauge.	4 00
Galvanized American, 16 gauge.	3 75
18 to 22 gauge	4 00
24 gauge.	4 25
26 gauge.	4 50
28 gauge.	4 75
Genuine Russian, lb.	12
Imitation	8
Tinned, 24 gauge, 100 lbs.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 00
Ingot tin.	28
Canada plate, 18 x 21 and 18 x 24	3 25

Sheet zinc, cask lots, 100 lbs	8 00
Broken lots.	8 50
Pig lead, 100 lbs.	4 25
Wrought pipe, black, 1/4 inch.	2 50
" 3/4 inch.	2 75
" 1/2 inch.	3 00
" 3/4 inch.	4 00
" 1 inch.	5 00
" 1 1/4 inch.	7 00
" 1 1/2 inch.	8 50
" 2 inch.	11 50
" Over 2 inch.	65 p.c.
Rope, sisal, 7-16 and larger.	10 50
" 3/4	11 00
" 1/2 and 5-16	11 50
Manilla, 7-16 and larger	12 00
" 3/4	12 50
" 1/2 and 5-16	13 00
Solder	28
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	85 p.c.
Round "	77 1/2 p.c.
Flat " brass.	80 p.c.
Round "	72 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire.	55 p.c.

Sleigh shoe.	65 p.c.
Rivets, iron.	50 p.c.
Copper, No. 8, lb.	28c.
Spades and shovels.	40 p.c.
Harvest tools.	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1.	1 50
No. 2.	1 25
Octagon extra.	1 65
No. 1.	25
Linseed oil, raw, per gal.	58
" boiled.	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol.	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M.	16 00
American, M.	16 25
Shot, Ordinary, per 100 lbs	6 25
Chilled.	6 75
Powder, F.F., keg.	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed.	70 and 30 p.c.
Granite ware, according to quality.	50 to 60 p.c.

TUBES ENAMELS

Five kinds of tubes — five grades of goodness.

All good tubes.

Either style—butt-ended or telescoped.

And lots of price-choice.

Would the American Tire Company sell poor inner tubes?

Have you seen them in our catalogue?

BELLS BARS

Lots of bells — some of 'em cheap.

Good many new ideas.

Mighty nice press-the-button bell. Some with adjustable levers.

Few of 'em ornamented — fine lines to sell.

The catalogue tells.

GRIPS OILERS

New grip ideas with reinforcement inside — doesn't let 'em break. We've got 'em.

Leather grips too.

Needn't doubt our enamels.

"Goodflex goods are good goods."

All colors. Air drying or for baking.

Brushes for putting 'em on. Varnish to finish 'em nicer.

There's money behind what our catalogue shows.

The "Schinner" Bar's "all right."

Pretty good idea making 'em of octagon tubing, wasn't it?

They're such good-looking riders can't get past 'em.

Point is, can you? Look in catalogue first.

TOOLS G. & J.'s

Two good wrenches — Sell one at 50c.; the other at 75c.

Make money on 'em.

The Best One is the Billings & Spencer.

The Better One is the "Enterprise."

There isn't any you'd just call "good."

At least not here. See 'em in the catalogue anyhow.

SPOKES

Everything you need for repairs.

Spokes — Good ones.

Hubs — Three good kinds.

Nipples — Any size.

Washers — Saw tooth. Pretty nice price. Look in the catalogue.

CHAINS

Baldwin chains for something fancy.

And good everyday chain too. Standard lengths. Show in the catalogue.

Soft edge puts 'em on easy. Easy to sell 'em.

No wire. No broken rims. No tommyrot stiffness.

Goodrich Inner Tubes inside — pump 'em once a month.

See 'em in the catalogue.

PUMPS

There's no blowing up these pumps.

They're worth everything we'd say about 'em.

Three or four good hand pumps.

A couple of good foot pumps.

Pump connections.

Lots of pump quality about 'em.

See the book.

A WANT

If you deal, get on our mail list.

You'll get on our list with a postal card, request.

We want you to get our dealer's counter catalogue — and our proposition.

Don't forget our Proposition.

AMERICAN TIRE COMPANY, LIMITED

166 KING STREET, TORONTO.

HOW IS YOUR STOCK OF HANDSAWS ?



Now is the time to stock-up. . .

“DISSTONS”

are the ones that are sure to please your customers.

THE PRICES ARE RIGHT, TOO.

Don't pay the same price for inferior goods.

There will be both pleasure and profit in selling
these goods. . . .

LEWIS BROS. & CO.

St. Sulpice Street

QUOTATIONS
FREELY GIVEN.

Montreal.

The "STANDARD WICKLESS"

Blue Flame Oil Stove.

The stove that will revolutionize the oil stove business in 1899.
Unique and "Fetchy" in appearance.
The kind that sell easy and stay sold, because it has :

No Wicks to trim or replace.
Sight drip oil feed.
Measuring cup for starting.
All parts interchangeable and
Easily kept clean.
Simple operation.
Rapid action.

Made in eight styles and sizes, and built on new cabinet frame. Write us for catalogue and prices.



No. 251.

The Thos. Davidson Mfg. Co., Limited, Montreal

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

**Special Manila
Tiger**

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Now is the time



to order
a full line of

QUICK MEAL

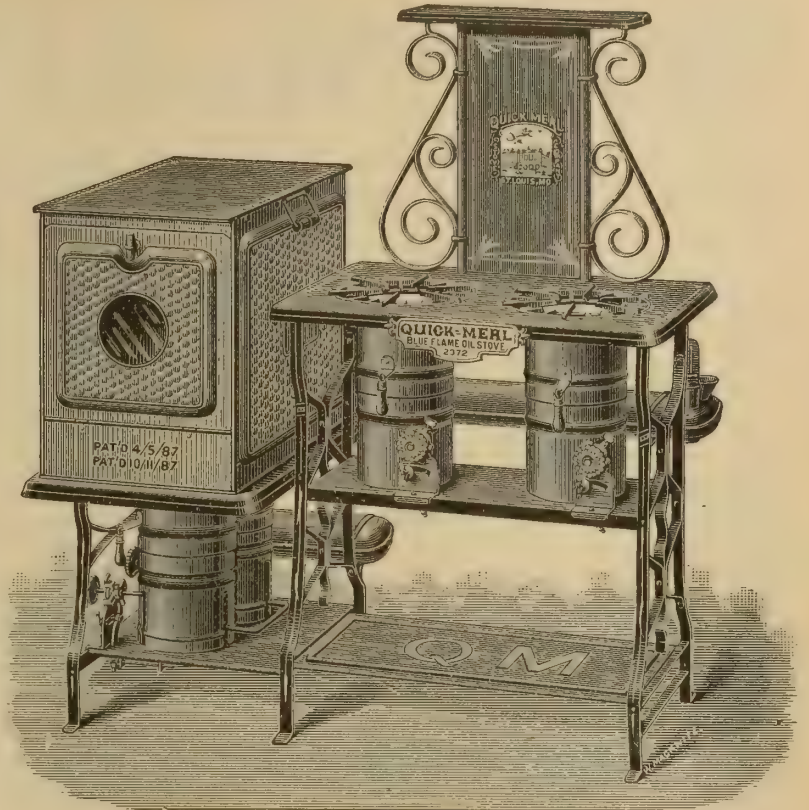
STOVES
for Summer Needs.

These popular GASOLINE AND BLUE FLAME OIL (with or without the wick) STOVES have fairly earned their reputation for superior reliability in the 18 years in which they have been on the market.

"Better than ever" is the summing up for '99! We are sole Canadian agents, with a full line of sizes and styles.

Write for Catalogue—the new "Wickless" Blue Flame Oil line will interest you.

Among Gas Ranges, **OUR OXFORD** holds first place. Its Reversible Oven Burners, and other improved points in construction, make it the most popular seller you can find. Write for particulars.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

CRUCIBLES



Our stock is now complete
in numbers 12 to 80.

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

HEATING AND PLUMBING

SANITATION IN PUBLIC PLACES.

THE hygienic arrangement of theatres and other places of amusement all the world over is disgracefully neglected, says The Medical Record. The importance of thorough sanitation of schools and similar institutions is now fully realized, and no expense or trouble is grudged in carefully looking after the bodily as well as the mental welfare of the young. It is, therefore, curious that, while adults are so solicitous for a state of sanitary soundness in schools, they should exhibit a complete indifference toward hygienic matters in theatres, music halls and churches. One reason for this apparent disregard for the laws of health is that the stay in such places is necessarily brief. Nevertheless, there are signs that the general public are becoming more alive to the dangers lurking in theatres and churches. The less said about the toilet-rooms of theatres, both for the use of the public and employes, the better. The ventilation of public places has received very elaborate attention in some places, but in the older theatres and churches the means for ventilating them are either non-existent or antiquated. So long as playgoers are indifferent the managers and theatre owners will allow matters to remain in statu quo. Theatre proprietors are not the only sinners in this respect, for churches of all denominations are, in many instances, overcrowded and insufficiently ventilated. In churches where services are held at frequent intervals special means should be taken to provide a sufficient allowance of pure air by mechanical process for ventilation.

PLUMBER'S PROFITS.

WHAT are the plumber's profits? A delusion, a myth, a dream and a spectre! I am going to discuss this question with the idea of opening a discussion on the subject and getting the opinions of the plumbers as to "what they're going to do" to change conditions.

We will say a plumber is doing a quiet, conservative business amounting to \$25,000 a year, divided as follows:

Contract work, \$15,000 on which he makes \$1,500
Days' " 5,000

Jobbing work, 5,000 on which he makes
33 1/3 per cent. 1,250
50 per cent. 1,666

\$25,000 \$4,416

EXPENSES.

Rent	\$900
Bookkeeping	624
Interest on \$5,000 capital	250
Incidentals—trucking, gas, heat, loss of men's time	300
Losses, bad debts.	300
	\$2,374

deducted from profits leaving a net sum of \$2,042. My estimate of profits on work is, to a large extent problematical, firstly, the \$1,500 on contract work may be there, then again it may not, as fully one-half the work work may show a loss; if so, the contract work will simply have proven a contribution to our old friends and customers, and demonstrated to them that we are not high in making charges for the jobbing work they had been or are giving us. Secondly, on days' work we may earn 33 1/3 per cent., but can we count on doing \$5,000 worth? This kind of work is getting scarcer each year and only those men who have made a reputation can rely on securing that amount. Thirdly, on jobbing, place the amount at \$5,000 with a profit of 50 per cent.—that isn't a bad business, but figuring the percentage of profit is a chance, as loss of time should be a large factor; we can easily tell profit on each piece of jobbing work, but how about the losses in keeping men always on hand to properly take care of it?

As to expenses, I believe my estimate is very low and conservative; if anything too low, however, we will consider it correct—what, then, have we made? \$2,046? No, sir! On paper, yes, but in fact, very likely \$1,000 or \$1,250. As we drew \$2,500, our capital has been impaired, and possibly such has been the case for some years, so that we are doing business on our credit, and the day of reckoning draws nearer.—Plumbers' Trade Journal.

LONDON HARDWARE DEALER DEAD.

One of London, Ontario's, oldest business men died last week in the person of James Wright, of the wholesale and retail hardware firm of James Wright & Co., London.

Mr. Wright came to Canada in 1858, and after teaching school six years, commenced business in partnership with James

Cowan. On the dissolution of that partnership, he went into the wholesale trade, in which he was very successful. From his first settlement in London, Mr. Wright took an active part in everything tending to the substantial growth of the city, and was for twenty years a member of the school board. Mr. Wright leaves four daughters and two sons.

A GOOD INSTITUTION.

Seventeen years ago The McClary Manufacturing Co. Benefit Society, London, Ont., was organized, and during these years it has been a source of blessing to many a sick or disabled employe of The McClary Co.

During 1898 this society paid out of its general fund \$1,873 for sick benefits, etc. During the last four years the society has annually held a concert, the net proceeds of which are used for special cases of need among the employes. The concert held last year was a success, and supplemented the general fund by a special fund of \$125. The concert this year was even a greater success, many being turned away after 1,400 people had filled the hall.

SHIPPING PARIS GREEN.

The Canada Paint Company, Limited, have commenced to ship paris green in large quantities. They have about 200 tons now ready for shipment and another 100 tons in process of manufacture. Their customers, therefore, will have no cause for complaint on the score of slow shipment. The product seems to be this year a rich, deep green, Government standard.

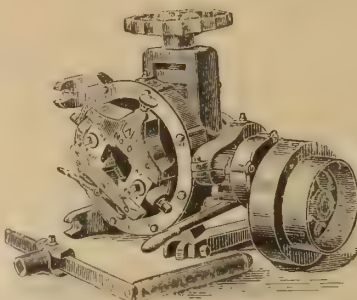
The company promoted by H. M. Whitney and J. T. McLennan, of Boston; B. T. Pearson and B. Ross, of Halifax, who propose buying up the iron deposits of Cape Breton and Belle Isle, is said to be capitalized at \$10,000,000 with power to increase to \$20,000,000. They are now seeking incorporation.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

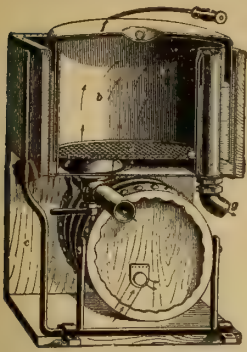


No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.



PLUMBERS!

protect yourselves
by testing your work
with the simplest and
most reliable Smoke
Test.

Send for Circular

The
**JAMES MORRISON
BRASS MFG. CO.
Limited**

Toronto.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.



THE "DAISY" SANITARY EARTH CLOSET.

Made entirely of
Metal, and Ventilated
Newest and Best.

Designed for dwellings
and places where water
closets cannot be used.
Does not gather odors
nor become unsanitary as
wood closets do.

Manufactured by

**THE
TORONTO FURNACE
AND CREMATORY
CO., Limited.**

14 and 16 Queen St.
East, Toronto.

Write for circulars and
prices. Headquarters for
Builders' Castings, Sash
Weights, etc.



The

CARPENTER GRASS HOOK.

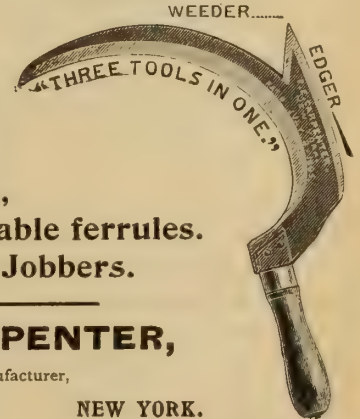
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



THE .. DOMINION RADIATOR COMPANY

LIMITED

Dealers

in the most complete line of

Steamfitters' Specialties

HEAD OFFICE and WORKS:

340 to 376 Dufferin Street

TORONTO, ONT.



Safford Steam ^{and} Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
Cast and Malleable Fittings
Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

HEATING AND PLUMBING—Continued.

TORONTO BUILDING PERMITS.

THE following building permits have been issued in Toronto: To Mrs. Monegan, for a two-storey and attic dwelling on Amelia street, near Parliament street, to cost \$4,600; to M. S. Kellow for a pair of two-storey and attic semi-detached brick houses at 24 and 26 Howland avenue, to cost \$4,000, R. M. Ogilvie, architect; to Wm. Donohoe, for a two-storey dwelling and shop at 33 Robert street, to cost \$1,000; to E. Woodley, for a pair of semi-detached two-storey and attic residences at the north-west corner of Avenue road and Dupont street, to cost \$2,500; to The Bertram Engine Works, for a one-storey enclosed shipyard on the waterfront, south of the Esplanade, east of Bathurst street, to cost \$7,000.

TORONTO MASTER PLUMBER FAILS

J. R. Seager, plumber, Queen street west, Toronto, has assigned to H. B. Andrews, of the same city. Mr. Seager, succeeded

Ross & Co., about four years ago, and is well-known to the trade here, being an officer in the Toronto Master Plumbers' Association. His liabilities are placed at \$1,300; his assets at \$191 in stock and \$96 in book debts. A meeting of his creditors has been called.

PLUMBING AND HEATING NOTES.

Lesperance & Theriault, plumbers, Montreal, have dissolved.

The Roofers' Supply Co., Limited, Toronto, has been incorporated.

Edward J. O'Brien, has registered as proprietor of The Peoples Plumbing Co., Montreal.

ABSORBING POTTERY PLANTS.

It is reported, according to an exchange, that all except two or three pottery plants have been absorbed by The American Potteries Company, and that the details of organization of the new corporation are now nearly completed. It is also learned that

the election of a board of directors and of officers will be held at an early date, and the consolidation will probably be in regular working order by March 1. Col. Taylor, of East Liverpool, Ohio, is slated for the presidency. The subscriptions to the stock of the new company are said to be very satisfactory. All the plants under their control will be operated to their full capacity, owing to the large demand.

HAND BARROWS.

A. Gibb is showing for spring trade a full line of samples of hand barrows, brick and mortar hods and navy wheel barrows from Cleland Bros & Co., Meaford, Ont. This firm has recently erected a new plant, and are now larger manufacturers than ever, turning out barrows that will compare favorably with American products both as to finish, quality, and ease with which they can be put together.

Temple & Bolton, general merchants, Napinka, Man., have been burned out. The loss is estimated at \$7,500; the insurance at \$4,300.

Toronto Foundry Co.

Manufacturers of SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

Henderson & Potts

MANUFACTURERS OF

NOVA SCOTIA PAINT AND VARNISH WORKS.

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated ENGLISH White Lead.

HALIFAX, and 747 Craig St., MONTREAL

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates Gal-
vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

ARE YOU A BUYER of

Hardware, Metals,
Paints, Oils, etc. ?

Send us Post Card, and a copy of the latest
issue of **HARDWARE AND METAL**, the lead-
ing authority on these trades, will be sent to
you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
28 Front St. West, TORONTO
109 Fleet St., E.C., LONDON, ENG.**The Portland Rolling Mills Co., Limited**

Manufacturers of

Refined Bar Iron

Railway Spikes

Pressed Spikes

Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"**

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**

Factory at
Germantown Junction.**B.B. WROUGHT ORNAMENTAL PIPE STRAPS**

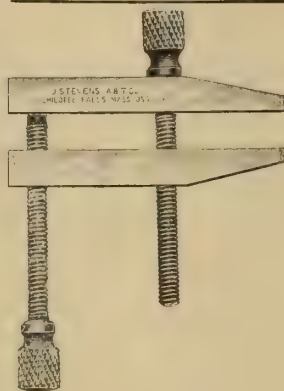
Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.**STEVENS FINE TOOLS**We make a perfect line
of**CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool Makers'
Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools. It is also
a valuable hand-book of information for mechanics and people interested in
such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass., U.S.A.

Carried by our representatives at Toronto and Montreal.

New Profits.

Church's Alabastine
opens up a new field of profit for you, limited only by the number
of people living in your territory. As a permanent and absolutely
sanitary ("it hardens with age"), water color, wall coating, it
CAN BE APPLIED BY ANYBODY. You do not have to depend
on the trade of Painters and Decorators—it is easy to use and
READY to use with cold water. Skill is not necessary to apply it
successfully. New profits (and unlimited ones) for you if you
sell it.

It never decays, won't rub off
or "scale." Coat over coat can be
applied, no sponging or scraping
necessary. 16 beautiful tints and
white.

**Church's
Alabastine.**

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETTDOVERCOURT
TWINE MILLS.1078 BLOOR STREET WEST,
TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,

Cotton and Russian Hemp Plough Lines, plain and colored.

Cotton and Linen Fish Lines, laid and braided.

Netted Hammocks, white and colored, Tennis and Fly Nets.

Skipping Ropes, Jute, Hemp and Flax Twines.

JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.

CURRENT MARKET QUOTATIONS.

February 24, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 28
Straits	0 27½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X., "	6 25
I.X.X., "	7 50
J. R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25
Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50
Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X., "	4 25
I.X.X., "	5 00
I.X.X., "	5 75
D.C., 12½x17	3 00
D.X., "	3 75
D.X.X., "	5 75

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base.	3 25
20x28.	6 75

Charcoal Plates—Terne.

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 25
I.C., Terne Tin	7 75
I.C., Orion	6 25
I.X., Orion	7 25

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs	Per lb.
14x60	0 05½
14x65,	0 06

Tinned Sheets.

72x30 up to 24 gauge.	0 06	0 06½
" 26	0 06½	0 07
" 28	0 07½	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price
" from factory	1 55
Refined "	1 45
Horse Shoe	2 21
Hoop steel, 1½ to 3 in. base,	1 65
extra for smaller sizes	1 70
Swedish	2 25
Sleigh Shoe Steel " base	4 00
Tire Steel	4 25
Machinery	1 75
Cast Steel, per lb.	1 85
Thos. Firth & Sons' Cast Steel	1 95
Russian Sheet, per lb.	0 10
Tank Plates, 1-5 and thicker.	0 12
Boiler Rivets	0 10½
	2 00
	4 50

Boiler Tubes.

1½-inch	0 06½
" 2	0 07½
" 2½	0 09½
" 3	0 11

Steel Boiler Plate.

3-16 inch	2 00
" 1/8	1 90

¾ inch and thicker. 1 75

Black Sheets.

18 gauge	2 40
20 "	2 50
22 to 24 "	2 55
26 "	2 65
28 "	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 60
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$2.50; ½ inch, \$2.40; ¾ inch, \$2.80; 1 inch, \$3.95; 1½ inch, \$5.10; 2 inch, \$6.75; 2½ inch, \$9.10.

Galvanized, ½ inch, \$4.45; ¾ inch, \$5.40; 1 inch, \$7.35; 1½ inch, \$10.95; 2 inch, \$13.15; 2½ inch, \$17.85. Cast soil, 2, 3, 4 and 5 inch 60, 10 and 5 p. c.

Galvanized Iron.

	Comet.	Amer.	Queen's
16 gauge	G.C.	3 50	3 90
18 to 24 gauge		3 25	3 65
26 "		4 00	3 50
28 "		4 25	3 75
Less than cask lots, 25c. per 100 lb. additional.		4 25	4 65

Chain.

Proof Coil, 3-16 in., per 100 lbs	7 00
" ¼ "	6 00
" 5-16 "	3 50
" ¾ "	3 15
" 7-16 "	2 95
" ¾ "	2 80
" ¾ "	2 70
" ¾ "	2 60
Trace, per doz. pairs.	3 60
Jack chain, iron, single, per doz. yards.	0 13
Jack chain, double, per doz. yards.	0 15
Jack chain, brass, single, per doz. yards.	20 10

Copper.

Ingot.	
English B. S., ton lots	0 17½
Lake Superior	0 18
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in. round and square 1 to 2 inches.	0 22
" 1 to 2 inches.	0 24

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60	0 23
Untinned, 14 oz., and light, 16 oz., irregular sizes.	0 23½
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.	
Tinned copper sheets	0 26
Planished	0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea. per lb.	0 25
" 35 to 45 "	0 21
" 50-lb. and above,	0 23
Boiler and T. K. Pitts.	
Plain Tinned, per lb	0 28
Spun, per lb.	0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½ p. c. off list.	
Sheets, hard-rolled, 2x4	0 20
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 07
Domestic "	0 07½

Zinc Sheet.

5 cwt. casks	0 08
Part casks	0 08½
Lead.	
Imported Pig, per lb.	0 04½
Domestic, per lb.	0 04
Bar, 1 lb.	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05
Sheets, 3 to 6 lbs., per sq. ft., by roll.	0 04½
NOTE.—Cut sheets ½ cent per lb. extra Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount.	
NOTE.—Cut lengths, net price, waste pipe in 8-ft. lengths, lists at 7½ cents.	

Shot.

Net list, no discount.

Solder.

Bar half-and-half	Per lb.	Per lb.
Refined	0 16½	0 17½
Wiping	0 15½	0 16½
	0 14½	0 15½

NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb.	0 11
Other makes, per lb.	0 09

White Lead.

Pure, Assoc. guarantee, ground in oil,	Per
25 lb. irons	6 00
No. 1 do	5 62
No. 2 do	5 25
No. 3 do	4 87½
No. 4 do	4 50
Robertson's Chemically Pure	6 00
Munro's Select Flake White	6 25
Elephant and Decorators' Pure	6 00
Brandram's B. B. Genuine	8 00
" No. 1	7 25
James genuine	7 20
" No. 1	6 75

White Zinc Paint.

Pure White Snow White	0 08
Pure White Zinc	0 08
No. 1	0 06
No. 2	0 05

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt	1 35
Yellow Ochre (J.F.L.S.), bbls. per cwt	1 40
Yellow Ochre (Royal), per cwt	2 75
Venetian Red (best), per cwt.	1 10
English Oxides, per cwt.	3 00
American Oxides, per cwt	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
" Umber, "	0 10
" do. aw. "	0 09
Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½
Ultra marine Blue in 28-lb. boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1-lb. tins.	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100.	1 65
Bulk in less quantities.	1 80
25-lb. tins, 4 in case.	2 05
12½-lb. tins, 8 in case.	2 30
Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.	

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do.	2 50
Body Varnish	4 50
Furniture Varnish	0 85
Extra do.	0 90
Demar Varnish	1 60
Hard Oil Finish	1 40
Orange Shellac Varnish	2 00
White Shellac	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.

Raw, per gal. net.	0 50
Boiled, per gal. net.	0 53
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net.	0 67
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots.	0 11½

Cod Oil, Etc

Cod Oil, per gal.	0 50
Pure Olive	1 20
" Neatsfoot.	90

Glue.

(In bbls.)	
Common	0 08½
French Medal	0 12
Cabinet, sheet	0 11
White, extra	0 16
Gelatin	0 22
Strip	0 18
Coopers	0 19
A1 clear	0 09

HARDWARE.

Ammunition.

Cartridges.	
R. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dia. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. c. Amer.	

JOHN BOWMAN HARDWARE AND COAL CO.

London, Ont.

S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer net list. B.B. Caps, discount 45 per cent Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent
 Primers, Dom., 30 per cent.

Wads.

Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 60
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Anvils.

Per lb. 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.

Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

Millar's Falls, per doz., 2 80 3 30

AXES.

Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, " 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Bath Tubs.

Zino, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list
 Boxing extra

Anti-Friction Metal.

Tandem " A, per lb. 0 19
 " B, " 0 16
 " C, " 0 10½
 " Monarch " 1, " 0 21
 " 2, " 0 15
 " 3, " 0 10
 " Canadian " " 0 08½
 Magnolia Anti-Friction Metal, per lb. 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.

Hand.

Brass, 60 per cent.
 Nickel, 55 per cent.

Door.

Gongs Sargent's, 5 50 8 00
 " Peterboro', discount 50 per cent.
 Cow.
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.
 American, each, 1 25 3 00

House.
 American, per lb. 0 35 0 40

Bellows.

Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.

Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.

Auger.

Gilmour's, discount 65 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.

Gilmour's, 47½ to 50 per cent.
 Expansive
 Clark's 40 per cent.
 Excelsior, 10 per cent.

Gimlet.

Clark's, per doz., 0 65 0 90
 Diamond, Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.

Annex, per doz., 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 90

Blind and Bed Staples.

All sizes, per lb. 7½ 0 12

Bolts.

Carriage, 51 and under, dis., 70 per cent.
 " ¾ and larger, dis., 60 and 10 per cent.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Elevator, dis., 35 to 40 per cent
 Machine, 5-16 and under, dis., 70 p.c.
 " ¾ and larger, dis., 65 and 10 p.c.
 Coach Screws, dis. 75 and 10 p.c.
 Plough bolts, 60 p.c.

Boot Calks.

Small and medium, per M. 4 50
 Small heel, per M. 4 25

Broilers.

Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City " 7 50 0 00

Butchers' Cleavers.

German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.

Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Rull Rings.

Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.

Brass.
 Wrought Brass, dis., 10 p.c. revised list.
 Cast Iron
 Loose Pin, dis. 70 per cent.
 Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Cards.

Horse per doz., 0 60 1 00

Carpet Stretchers.

American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

Carpet Sweepers.

Bissell, per doz., 22 50
 World, " 21 75
 Daisy, " 24 00
 Star " 18 00
 Crown Jewel, per doz., 29 00
 Grand Rapids, " 24 00 33 00

Cartridges.

(See Ammunition.)

Castors.

Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.

Nos 31 and 32, per gross, 8 50 9 50

Cement.

Canadian Portland, 2 65 2 90
 English, " 2 80 3 00
 Belgium, " 2 50 2 50
 Canadian hydraulic, 1 00 1 10
 Figures are for barrel lots.

Chalk.

Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt, 0 60 0 65
 Red, " 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.

Socket, Framing and Firmer.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 40 and 5 per cent.

Churns.

Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock.
 Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.

Axle dis. 65 per cent.

Closets.

Washout, plain, 3 25
 " embossed, 3 50

Compasses, Dividers, Etc.

American, dis. 62½ to 65 per cent

Cradles, Grain.

Canadian, dis. 20 per cent.

Dies.

Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. 5 per cent.

Door Springs.

Torrey's Rod, per doz., (15 p.c.) 2 00
 Coil, per doz, 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.

Broad's, dis. 75 per cent.
 Warnock's, dis. 25 per cent.

Drills.

Hand and Breast
 Millar Falls, per doz. net list.
 DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.

Stovepipe.

Per doz., 85 1 70

FILES.

Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent
 Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.
 Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27½ per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.

Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS.

Ice Cream.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRUIT PRESSES.

Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

FRY PANS.

Acme, dis. 65 to 67½ per cent.

GAUGES.

Marking, Mortise, Etc.

Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.

Window.

Box Price.

Size United Inches.	Star. Double Diamond		
	Per 50 ft.	Per 100 ft.	Per 100 ft.
Under 25	1 80	3 50	5 50
25 to 40	1 95	3 80	6 10
41 to 50		4 20	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.

Rope, ¾ per gross, 8 25 8 50
 " ½ " 9 25 9 50
 " ¼ " 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 00
 " 1½ in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.

Nail

Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Tack.

Magnetic per doz., 1 10 20

Sledge.

Canadian, per lb., 0 07½ 8½

Ball Pean.

English and Can., per lb., 0 22 25

HANDLES.

Axe, per doz., net, 1 50 2 00
 Store door, per doz., 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Fork.

C. & B., dis. 45 per cent. rev. list.

Hoe.

C. & B., dis. 45 per cent. rev. list.

Saw.

American, per doz., 1 00 25

Plane.

American, per gross, 3 1

Hammer and Hatchet.

Canadian, 45 per cent.

Cross-Cut Saw.

Canadian, per pair, 0 13½ 0 20

HANGERS.

Door, 4 and 5 inch, per pair, 0 40 50
 Lanes, 62½ per cent.

HATCHETS.

Canadian, dis. 40 to 42½ per cent

HINGES.

Blind, Parker's, dis. 60 and 10 to 65 per cent
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb., 0 05

" 5-in., " 0 01¾

" 6-in., " 0 04½

" 8-in., " 0 01¼

" 10-in., " 0 04

Heavy, per lb., 0 03¾ 0 04¾

Screw hook and hinge, 6 to 12 in., per 100 lbs., 3 15

14 in. up, per 100 lbs., 2 35

Spring, per doz., 8 50

HOES.

Garden, Mortar, etc. dis. 60, 10 and 5 p.c.

Planter, per doz., 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		
Wire.		
Hat and coat, dis. 60 to 60 and 10 p.c.		
Beit, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS.

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.	F.O.B.	Toronto.
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		
Light, all sizes.	3 45	
Extra light	4 60	
Toe weight (steel)	5 60	
If shipped from factory, Montreal, 10c. per keg less.		

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per		
doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
and 10 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass, "	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz.	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		
Padlock.		
English and Am., per doz.	50	6 00
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MOLASSES GATES.

Stebbin's Patent, dis. per cent., 77½ per cent		
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NAILS.

Quotations are:	Out.	Wire.
2d. and 3d.	\$2 75	\$3 15
3d.	2 40	2 80
4 and 5d.	2 15	2 55
6 and 7d.	2 05	2 45
8 and 9d.	1 90	2 30
10 and 12d.	1 85	2 20
16 and 20d.	1 80	2 20
30, 40, 50 and 60d. (base).	1 75	2 15
Steel Out Nails 10c. extra		
Brads and finishing nails, special sizes,		
p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety "	0 16½	
American w. w. "	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil		
can, with pump, 5 gal.		
per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
brass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis,		
Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½		
to 4.	100 00	
No. 56 Hand Machine, range 2½		
to 6.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.

S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning	0 35	2 50

PUMPS.

Canadian cistern	1 40	2 25
Canadian pitcher spout	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors,	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 61 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 80	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURS.

Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and		
p.c.		
Copper Rivets & Burs, 37½ p.c. dis.		
cartoons, 1c. per lb. extra, net.		
Burs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	9%	Manill
¾ in.	9%	10½
½ and 5-16 in.	10%	11
Cotton		13
Russia Deep Sea		14½
Java		7½
Lath Yarn	6%	8%
New Zealand Rope		

RULES.

Boxwood, dis. 80 and 10 to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crescent, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES.

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
Dominion, 60 p.c.		
Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 10	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS.

Sargent's, per doz.	65	1 00
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SCREWS.

Wood, F. H., iron, and steel, dis. 85 & 5 p.c.		
Wood R. H., " dis. 77½ & 5 p.c.		
F. H., brass, dis. 80 and 5 p.c.		
Wood R. H., " dis. 72½ & 5 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.	3 25	4 00
iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS.

Seymour's, dis. 60 p.c.		
Heinrich, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinrich tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	2 50	
Bright	2 25	

STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindostan, "	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador, "	0 13	
Axe, "	0 15	
Turkey, "	0 05	
Arkansas, "	0 00	1 50
Water-of-Ayr, "	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind, per ton.	15 00	18 00

Stove Polish.



No. 4-3 dozen in case, net cash	\$4 50	
No. 6-3 dozen in case, "	7 50	

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk	75 and 10
Cheese-box tacks, blue d.	75 and 30
Trunk tacks, black and tinned	75 and 30
Carpet tacks, blued and tinned	80 and 30
" (in kegs)	80 and 30
Cut tacks, blued, in dozens only	80 and 30
" ¼ weights	60 and 30
Swedes, cut tacks, blued and tinned—	
In bulk	80 and 30
In dozens	80
Swedes, upholsterers', bul k	85 and 30
" brush, blued and tinned, bulk,	75
" gimp, blued, tinned & japanned	50
Zinc tacks	35
Leather carpet tacks	35
Copper tacks	52½
Copper nails	55
Trunk nails, black and tinned	75
Clout nails, blued and tinned	75
Chair nails	45
Cigar box nails	45
Patent brads	50
Fine finishing	50
Picture frame points	25
Lining tacks, in papers	10
" in bulk	15
" solid heads, in bulk	80 and 10
Saddle nails in papers	10
" in bulk	15
Tufting button, 22 line, in dozens only	60
Tin capped wire nails	15
Zink glazier's points	15
Double pointed tacks	15

ISLAND CITY Paint and Varnish Works

... Manufacturers of ...
**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS: 274 St. Patrick St., MONTREAL.

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Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

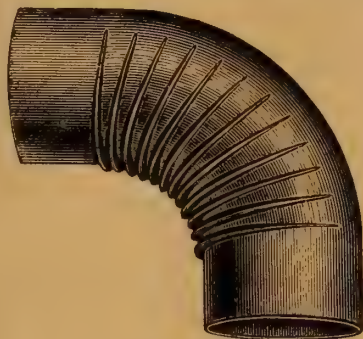
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McKinnon Building, Cor. Jordan and Melinda Sts.
Thos. C. IRVING, Superintendent

E. T. Wright & Co.

Manufacturers and sole owners

**SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.**



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

Buy the Best.



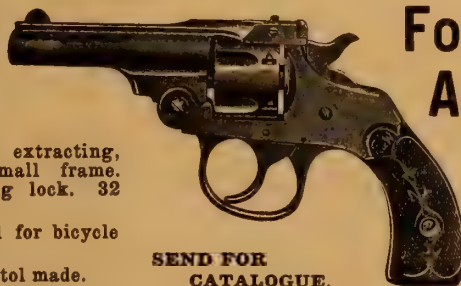
HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers

PERFECTION AUTOMATIC REVOLVER



Forehand Arms Co.

Manufacturers of
the

Forehand Guns

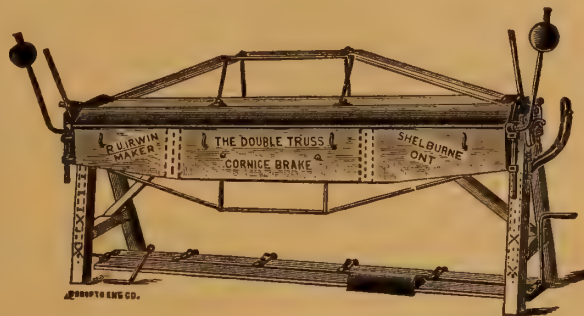
Worcester,
Mass.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.

SEND FOR
CATALOGUE.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to.

The Double Truss Cornice
Brake Co. SHELBURNE, ONT.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

The "Daisy"

REVOLVING
BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

Gold Medal at Atlanta, 1895

TRADE MARK.



HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and $1/32$, $1/16$, $3/32$, or $1/8$ in. thick.

Sole Manufacturers:

THE CUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

WELL BOUGHT, HALF SOLD.

Half the secret in keeping a store is buying the goods your customers are looking for. At this season of the year everyone has his eye open for the best Ready-Mixed Paint to do a little fixing up. Let your customers know you have Robertson's in stock. See how quick you sell it. One sale means another every time.

Manufactured by....

The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

Scientific Bearing Metal
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MARCH 4, 1899.

NO. 9



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,

266 and 267 New York
West St.,

THE CHEAPEST BRAND.



CANADA

Not the lowest in price, but the
cheapest, taking into account qual-
ity, finish and weight of sheets.
Forty years' experience justifies
the claim, and Canadian Iron-workers show
their belief in it by their continued patronage.

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD Patent RADIATORS

*For Heating by
HOT WATER and STEAM.*

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company
TORONTO Limited



Safford
Favorite

RICE LEWIS & SON

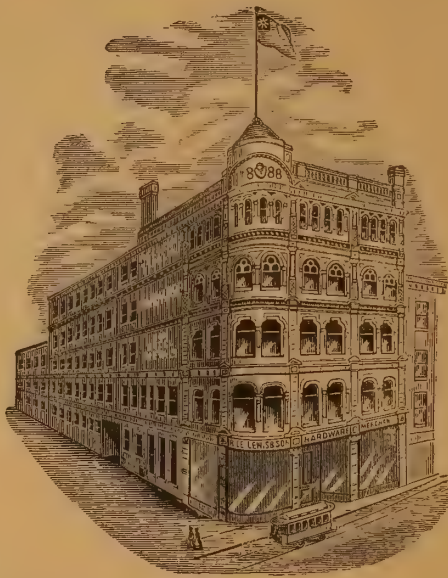
(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their
local mills and factories. Special discounts to the trade.
Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO,

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

J. K. MACDONALD,
Managing Director

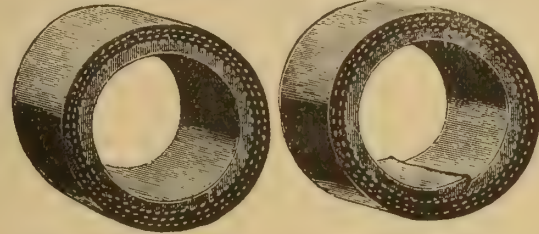
Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



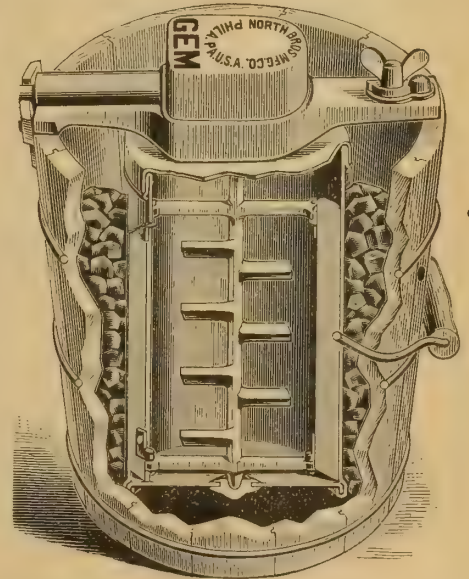
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.



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Cloth and Paper.
Glass and Flint Paper.

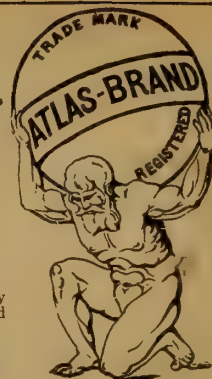
"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d.
and 1/2 tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

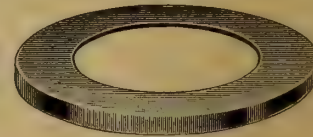
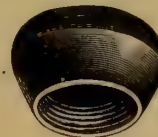
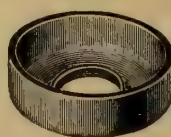


Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



Stove Trimmings

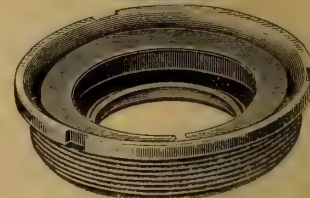
In BRASS, NICKEL
and BRONZE.

All orders promptly and carefully
executed.

**Sheet Steel
Bicycle Fittings**

OF ALL
DESCRIPTIONS.

Estimates furnished from Blue Prints,
Drawings or Samples.



CATALOGUES FURNISHED ON APPLICATION.

The H. A. MATTHEWS MFG. CO., SEYMOUR, CONN.

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER
PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.



White Mountain Freezers

WHITE Mountain Freezers represent three virtues that every dealer ought to burn into his memory—Leadership, Profit, Satisfaction.

More **White Mountain Freezers** are sold than of any other make. They are first in sales, first in convenience, first in durability, first in the favor of the public.

They give satisfaction to the owner, and they are of so high a character that they command a price upon which the dealer can realize a good profit.

Profit to you—satisfaction to your customers. That is what it means to sell **White Mountain Freezers**. No dealer can ask for more, and no manufacturer can give more.

Our Agents in the Dominion are . . .

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.


Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

Sole Manufacturers

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

Our 

Imperial Oxford

Represents the very highest development attained in range construction.

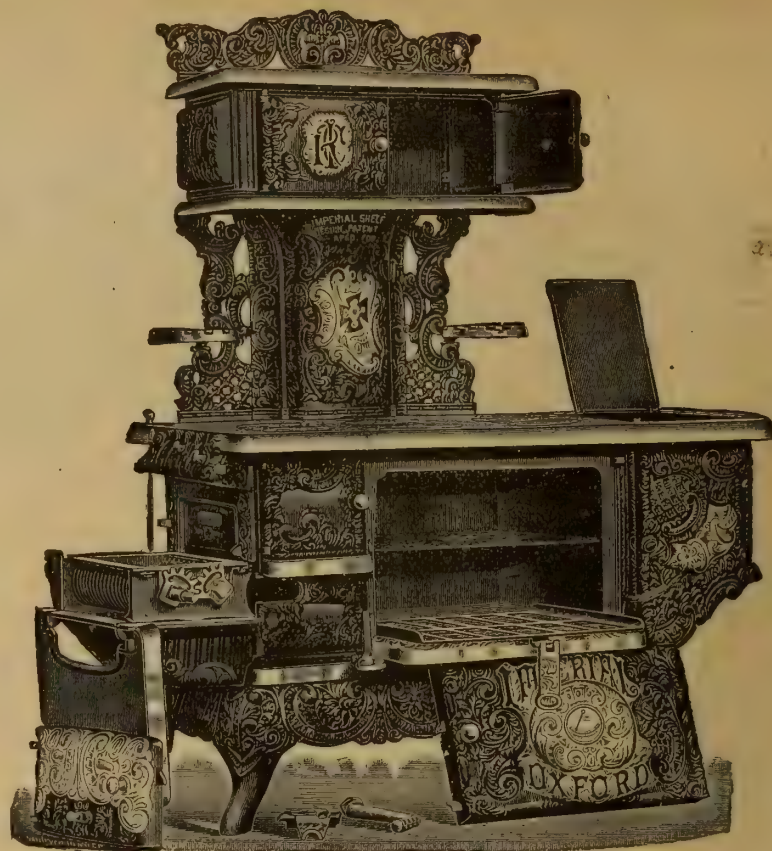
It has patented improvements that give it precedence over all others—improvements that need only to be seen to be appreciated by your customers.

Its Front Draw-Out Grate
Diffusive Flue Construction
Oven Thermometer
Draw-Out Oven Rack
And Handsome Appearance

are "talking points" that sell it everywhere.

ARE YOU HANDLING THEM ?

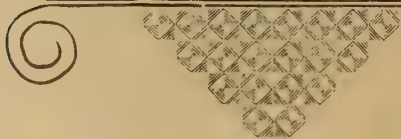
Write for our catalogue and price list. A full line of sizes and styles, fully guaranteed of course.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

CRUCIBLES



Our stock is now complete in numbers 12 to 80.

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

Colin McArthur & Co., Montreal, Que.

MANUFACTURERS OF ARTISTIC WALL PAPERS.



This cut represents one of our popular

*** High-Grade Friezes ***

But it is not by any means our best one.

The Season in which our goods are in such great demand is now almost upon us. If you have not already placed your order, **A POST CARD IS SUFFICIENT** to bring a nice selection of patterns right to your post office.

OFFICE, 1030 NOTRE DAME STREET.

FACTORY, 11-21 VOLTIGEURS STREET.

Pearl Stoves

THE GREAT SILVER STEEL LINE.

Easiest and most profitable
goods to sell.

The New National Pearl

The most modern range ever placed on the market.

Duplex grate, can be removed without disturbing firebrick or waterfront; no bolts, pins or rivets.

Silver steel oven with our patent truss.

Size of oven, 21 x 21.

Oven ventilated; with or without thermometer.

New damper construction.

Write for particulars.

THE...

Moffat Stove Co.

LIMITED

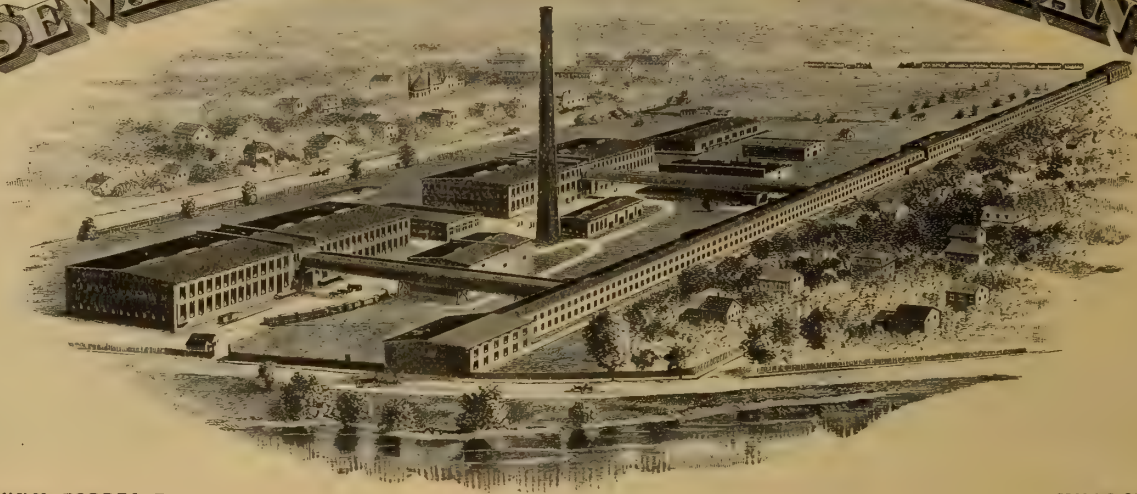
Makers of fine Cooking
Stoves and Ranges.

WESTON, ONT.



SEWALL & DAY CORDAGE COMPANY

ESTABLISHED 1835.



JOHN M. FORBES, Pres.
HORATIO DAVIS, Treas. and Man.
MOSES H. DAY, Supt.

MILLS AT
ALLSTON, MASS.

BINDER TWINE

45 BROAD STREET

BOSTON, MASS.

Despite statements to the contrary, by a certain competitor, the **SEWALL & DAY CORDAGE COMPANY** guarantee their "**S.D.**" Binder Twines first class in every way and equal to the best Binder Twines made.

"**S.D.**" Binder Twines always average the number of feet to the pound claimed for them.

For sale in Ontario and Quebec by

**John Bowman Hardware
and Coal Co.**

. . . London, Ont.

**Lewis Bros.
& Co.**

. . Montreal, Que.

T. BURROWES ROSS, Canadian Representative,

417 Board of Trade Building

Montreal.

The "STANDARD WICKLESS"

Blue Flame Oil Stove.

The stove that will revolutionize the oil stove business in 1899. Unique and "Fetchy" in appearance. The kind that sell easy and stay sold, because it has :

No Wicks to trim or replace.
 Sight drip oil feed.
 Measuring cup for starting.
 All parts interchangeable and
 Easily kept clean.
 Simple operation.
 Rapid action.



Made in eight styles and sizes, and built on new cabinet frame.
 Write us for catalogue and prices.

The Thos. Davidson Mfg. Co., Limited, Montreal

BINDER TWINE.

There is none
 "just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

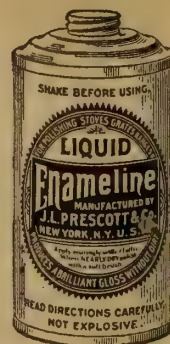
The Modern **STOVE POLISH**



CAKE.



PASTE.



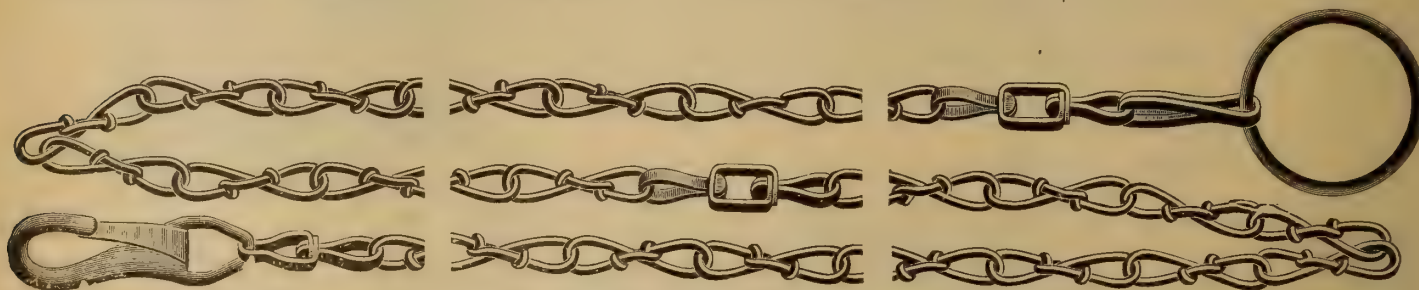
LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.

Oneida Steel Wire Tie-Out.

For tethering cattle in fenceless pastures.
Made in all sizes.



No Rivets. No Malleable Iron. ALL BESSEMER STEEL.

Made in 20, 30 and 50 ft. lengths.

ONEIDA COMMUNITY, Limited

NIAGARA FALLS, ONT.

Kemp's Wickless Blue Flame Oil Stoves.

A New Feature this year will be our Wickless Blue Flame Oil Stove.

**HANDSOME, CONVENIENT
and ABSOLUTELY SAFE.**

The Oil is fed to a powerful burner through Solid Brass Tubes, and Lights Instantaneously.

SIGHT FEED.

Removable Tanks, covered by Swinging Shelf.
No Complications, as Stoves are supplied with Removable Parts and can be quickly taken to pieces.

ECONOMICAL IN FUEL.

The Simplest, Readiest Understood, and most Reliable Wickless Blue Flame Stove made.



KEMP MANUFACTURING CO. - Toronto, Can.



HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, MARCH 4, 1899.

No. 9

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

OFFICES

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Telephone 2148.
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J. Hunter White.

Subscription Canada, \$2.00 Great Britain, \$3.00

Published every Saturday.

Cable Address { Adscript, London
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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

WHO HAS A STRICTLY CASH BUSINESS?

“SUBSCRIBER” writes: “I am much interested to know if any of your readers can say they do a strictly cash business. Will you kindly ask in your next issue? The reason I ask is this: I am a thorough advocate of cash. My business is generally known as a cash store, as I have taken repeated stands each New Year to sell for cash, yet I could not carry it out to the letter, and fully believe it is not possible.”

HARDWARE AND METAL places its columns with pleasure at the disposal of “Subscriber” in question, and also at the disposal of those who are in a position to furnish him with the desired information.

It is to be hoped there will be a ready response.

The cash question is one that is receiving a great deal of attention from the retail trade. There is, probably, none that is occupying more. And particularly that phase of it touched upon by the letter quoted above.

Can a merchant do a strictly cash business? Some have solved it in the affirmative: they do a strictly cash trade; do not enter a dollar upon their books. Others, again, have solved it, but in a sort of compromise way. They do what they call a cash business, but they have a few particular customers to whom they still give credit.

What is one merchant's meat in the way of the cash system may be another merchant's poison. In other words, while one merchant may thrive under a cash system another may starve. At any rate it is claimed that the conditions in all towns and villages are not the same, and, therefore, a strictly cash trade is not possible in all alike. “Subscriber,” for instance, claims he cannot do a strictly cash trade.

The why and the wherefore of these conditions are matters upon which not only “Subscriber,” but a good many other retailers throughout the country, are seeking light.

Give us your views or your experiences in time for the next issue of HARDWARE AND METAL.

The merchant who cannot get a good reputation cannot get a good business. It is always well to remember this, particularly when going into business.

THE ADVANCE IN BILLETS.

LAST week a sharp jump in the price of billets was noted at Pittsburg. Within the past eight days there has been another sensational rise in the same material, values advancing from \$17.75 to \$22.

As these constitute the basis of raw material for wire, wire nails and other kindred goods, it is but natural to expect that, with an advance in their raw material of almost \$5.00 inside of a fortnight, makers would advance prices, and they have, for this week barb wire, galvanized staples and wire nails are all from 25 to 30c. higher than they were a week ago, as will be noted elsewhere in the regular market reports.

At the rise uncertainty still exists as to whether prices are not going higher, for, as the makers explain, all depends on what their billets are going to cost.

If the combination works up prices still further on these, as they may do at any moment, value on the more finished materials will have to be shaped accordingly.

Another line than has been affected by the appreciation in steel billets is coil chain, on which United States makers withdrew prices this week. As a result of this, jobbing prices in Montreal, as will be noted elsewhere, have been advanced 50c. per 100 lb.

ADVANCE IN WOOD SCREWS.

The Canadian manufacturers of wood screws have advanced their prices, a circular announcing the fact having been issued this week.

The discounts off the list are now as follows: Flat head, bright, 85 per cent.; round head, bright, 77½ per cent.; flat head, brass, 77½ per cent.; round head, brass, 70 per cent.; flat head, bronze, 70 per cent.; round head, bronze, 65 per cent.

SHOULD CANADA RETALIATE?

NATURALLY, as a result of the failure of the negotiations between Canada and the United States, some consideration is being given to the question as to what the attitude of this country should be towards the neighboring republic.

The conference was never popular, so far as this country was concerned, and had a plebiscite been taken it would probably have decided against the sending of commissioners. Consequently at no time was there really any concern as to what the outcome of the negotiations might be. And the irritability which is now being manifested is not on account of the failure of the negotiations, but on account of the causes which brought them about.

As far as reciprocity in trade was concerned, that was a business proposition. The United States commissioners were at the conference to drive as close a bargain as they could. The representatives of the Dominion were there for the same purpose. And, while we have good reason to feel that the commissioners representing the other side tried at times to drive too close a bargain, yet that is the spirit of business transactions to-day between nations as well as individuals, particularly on the other side of the boundary line. It may not be right, according to the standard of morality; but custom has allowed a great deal to be designated as business which, according to moral standards, ought to come under some other classification. "Deal justly" has now become "Deal sharply." So what is "business" it would, perhaps, not be wise to take offence at.

But as for the position of the United States commissioners regarding the boundary question, by no possible means can it be justified. In every proposition they made they were obviously determined that, no matter how unjust to Canada the United States had been in arbitrarily defining its Alaskan boundary, full recompense should not be made.

Canada has described a boundary line which she believes to be correct; but she may be mistaken. So may the United States in the line which they have laid down. Both cannot be correct. That is certain. But it is none the less incorrect

for the United States to pick out the plums of the question in dispute and arbitrarily declare they shall not be a subject for arbitration.

It is what might be expected from a horde of buccaneers, without respect for laws either human or divine; but from a great nation, and especially from a great nation which boasts of possessing a superior quality of civilization it is unworthy if not unexpected.

The United States are evidently quite willing to take; but they are evidently equally determined not to give.

But while we as Canadians naturally feel annoyed at the unreasonable position assumed by the United States, our duty does not lie in the direction of retaliation.

Let all legislation of a tariff or other character be with an eye to the welfare of the Dominion, not to the injury of our neighbor.

Tariffs launched to injure others frequently hurt the makers of them as well as those for whose harm they are specially designed. Certain items in the McKinley and Dingley tariffs are proofs of this. Wars in which tariffs are the weapons have in some particulars the same characteristics as wars in which guns and swords are the weapons.

In spite of adverse tariffs and short-sighted politicians Canada and the United States will continue to do business with each other. But as long as the political conditions in the United States remain as they are the Dominion, even were it disposed to do so, might as well look for a needle in a hay stack as expect to look for anything approaching a fair commercial treaty with that country.

And the United States will have to show an unmistakable change of heart before any Government in this country will dare negotiate one. The trade question is comatose, and must remain so for a long time. The international questions must be left to diplomacy for solution.

The duty of Canadians is to mind their own business; to get into Parliament as many men of business common sense, irrespective of political faith, as possible, to the exclusion of those who are poor in the opposite quality; to devote their energies

to developing our great natural resources, and to the development of our export trade with Great Britain in particular, and with countries in general whose tariffs are not specially designed to shut out Canadian products.

These things do not mean retaliation; they do mean dependence upon our own energies.

BROOMS STILL ADVANCING.

BROOMS still continue to advance in price, a price list of one of the large manufacturers in Canada to hand this week showing an appreciation of 10 per cent. on previous quotations.

Broom corn, which, in November last, was selling at \$60 per ton in the United States, is now held at \$130 to \$150, an advance of about 117 to 133 per cent.

The crop is 15,000 to 20,000 tons short, and the fact that it has been cornered by Chicago and western dealers, and a few of the larger broom manufacturers, give additional strength to the market.

One of the best authorities in Illinois is credited with saying that the crop is the shortest in 20 years, and that the price will eventually touch \$200.

A meeting of The Broom Makers' Association has been called for March 7, in Chicago, and, unless a further advance takes place in brooms after this meeting, many manufacturers will have to close down, as they cannot afford to pay the price demanded for broom corn and compete with the larger manufacturers.

BARBED WIRE AGAIN ADVANCES.

There has been a further advance in the price of barbed wire of Canadian manufacture during the past week.

The price of both two and four-point is now \$2.50 per 100 lb. f.o.b. Toronto. Safety is quoted at \$2.75 per 100 lb., and plain twist at \$2.50. Galvanized staples have been advanced to \$2.75 per 100 lb., and bright to \$2.50.

In December last, four-point barbed wire was quoted at \$1.80 f.o.b. Toronto, and two point at \$1.90, showing that prices since then have appreciated 60 to 70c. per 100 lb.

The price of barbed wire has also advanced in Pittsburg and Cleveland this week, the f.o.b. figure at those points now being \$2.40 per 100 lb. for single carload lots.

A RADIATOR FIRM FINED \$2,600 BY THE CUSTOMS.

A DECISION has just been given by the Hon. W. Paterson, Minister of Customs, which imposes a heavy fine on a manufacturing concern in Toronto.

About seven months ago The Ontario Radiator Company, Limited, a recently organized corporation, imported from Cleveland, Ohio, machines necessary for the carrying on of its business.

Some time after the machines had passed the Customs, it was alleged that they had not been entered at their proper valuation, and the Department began an investigation, the result being the discovery of two sets of invoices.

In one set, the figures were minus certain incidental figures in the cost of making the machines, such, for instance, as drawings, etc. In the other, these figures were all taken into account, for it was the price, plus the figures in the other invoice, that The Ontario Radiator Company paid the manufacturers in Cleveland for the machines. The invoice presented to the Customs authorities when the entry was made was not the latter.

The difference in the cost of the machines, as shown by the different sets of invoices, was about 50 per cent.

When the matter was brought to the attention of The Ontario Radiator Company, it maintained that it had done nothing wrong, declaring that the figures eliminated from the invoice submitted to the Customs authorities should not be considered in making up the cost of the machines in question.

The Customs Department does not, however, see the matter in the same light, for Hon. W. Paterson has just decreed that the company must pay a fine of \$2,600 or forfeit the machinery.

GALVANIZED IRON AND BLACK SHEETS DEARER.

Jobbers in Toronto have, this week, again been notified by the makers in the United States of another advance in the price of both galvanized iron and black sheets.

The advance in galvanized iron is 25c. per 100 lb. In spite of this fact, however, jobbers are, at the time of writing, quoting

the same figures as a week ago, although these figures are rather less than what it would cost to lay down supplies at to-day.

Manufacturers' figures to-day are \$1.15 per 100 lb., or 34 per cent. above those ruling in December last.

The advance in black sheets is 10c. per 100 lb. for the week and 70c. per 100 lb. since December last. Jobbers' figures in this line are also unchanged this week.

ROBBING CANADIANS OF SEAL SACQUES.

Several ladies of New Brunswick have lately been caused to suffer through the operations of the United States sealskin law.

Our St. John, N.B., correspondent advises us that several ladies, crossing the boundary at Vanceboro', have had their seal sacques taken from them by United States officials, and, in some instances, ladies have been compelled to continue their journeys without outside garments.

The spectacle of United States Customs officials stripping seal sacques from the backs of Canadian ladies is most elevating. The nation may be large, but some of its laws are decidedly small.

ADVANCE IN CANADA PLATES.

The laid down cost of Canada plates to Toronto jobbers has during the last week or ten days advanced about 17c. per 100 lb.

Jobbers have not, however, yet taken advantage of the appreciation, their quotations being the same as a week ago.

During the past week jobbers have been experiencing an increased inquiry from customers who did not book orders. They are now apparently beginning to get anxious, particularly in view of the fact that the market has shown greater stiffness than they anticipated it would.

ROPE AT THE CENTRAL PRISON.

All the efforts that were made to induce the Ontario Government not to put in a rope-making plant at the Central Prison have proved abortive, for in a few days the machines, which are now being set up, will be in operation.

One of the officials at the Central Prison informed **HARDWARE AND METAL** some time ago that the difficulty of getting

prisoners trained to run the machines was delaying the manufacture of rope.

Of binder twine, the factory at the prison is turning out about four tons per day.

WIRE NAILS 25C. PER KEG DEARER.

The American Steel and Wire Co., which now practically controls the wire nail market in the United States, early this week instituted another advance in prices.

The advance was 25c. per keg, and manufacturers and jobbers in Canada have put their prices up by a like amount.

The price for Toronto and the west is now \$2.40 per keg, minus the rebate of 10c. per keg, and 5c. per keg less for east of Toronto. In Montreal the figure is \$2.35 per keg.

The f.o.b. quotation, Pittsburg and Cleveland, is \$1.90 per keg for single carloads.

The market is decidedly strong at the advance, and further appreciations are not at all unlikely.

THE PRICE OF EAVETROUGHS.

The price of both galvanized conductor pipe and eavetroughs has been advanced 10 to 12½ per cent. in the United States, and although no change has yet taken place in Canada, we are not likely to remain long without one.

Galvanized iron and spelter have both advanced materially, and higher figures for all lines into the manufacture of which they enter cannot be otherwise than expected.

NOTICE TO MANUFACTURERS' AGENTS AND JOBBERS.

One of the features of the spring number of **HARDWARE AND METAL** will be a directory of the hardware jobbers and hardware manufacturers' agents of the Dominion. In order that the list may be as complete as possible and that no name may be overlooked, every jobber and agent is requested to forward without delay the name of his firm.

No charge whatever will be made for the insertion of the name.

WILL STOVES ADVANCE?

Stove manufacturers in the United States are talking of advancing their prices again, owing to the high cost of raw materials. Inquiry amongst the trade in Canada reveals the same feeling here. In view of this fact and the practical impossibility of prices being lower, stove dealers should place their orders early.

THE DUTY MUST BE REMOVED.

It is difficult to see how the Government can refuse the relief from the machinations of the Standard Oil Trust asked by the manufacturers in Canada who use oil as fuel.

The Standard Oil Trust has secured a greater control of the petroleum production in Canada than it even has in the United States.

It first displayed its despotic character and power by demanding that the Canadian Pacific and Grand Trunk Railway Companies discriminate in their freight rates against imported oil in favor of that produced at its own refineries in Canada. The demands were audacious. No highwayman's could scarcely be more so; but the two powerful railways complied with their demands. It was somewhat refreshing to witness the extraordinary feat of one corporation forcing the two railways to obey its dictates. But, when it was the commercial interests of the country which had to pay for the music to which the railways were compelled to dance, the spectacle became enervating instead of refreshing.

The next exploit of the Trust is that which drew together a number of manufacturers a few days ago in Toronto for mutual protection, namely, the reducing of the oil supplied by the Trust as fuel, the increasing of the cost of same, and, in some instances, cutting off the supply altogether.

This high-handed action on the part of the Standard Oil Trust is a serious thing for manufacturers who use fuel oil.

Special plants are, of course, necessary for fuel oil, and many manufacturers have gone to a great deal of expense in putting these in, only to find that the Trust now proposes to practically cut off their supply of oil.

An abundance of fuel oil can be obtained from the independent oil refineries in the United States—and even the Standard Oil Trust does not attempt to do with the manufacturers in the United States what it is doing with those in Canada—but the duty of 2½c. per gallon, which is equal to 100 per cent. ad valorem, is almost prohibitive.

In consequence of the serious position in which they have been placed by the Trust, the manufacturers have decided to memorialize the Dominion Government to place fuel oil on the free list.

The meeting which decided upon taking this action could scarcely have been a more representative one of the manufacturing interests. Several of the largest manufacturing companies in the Dominion were represented, so that it was important as well as representative.

The meeting was non-political. It was composed of Conservatives and Reformers,

and the exigencies which compelled them to act in concert were commercial and not political.

The plea of the Trust is that there is a scarcity of oil, while the consumption of fuel oil is on the increase. This is all the more reason for the removal of the duty on fuel oil. And the Government of this country will be doing an injustice to the manufacturers if it does not remove it.

THE COMFORT OF BUSINESS PREMISES.

It happened to meet Mr. C. P. Hebert the other day as I was coming out of Hudon, Hebert & Cie's. I had not seen him for a long time, and I was delighted to find him looking better than for many years. He is now getting on in life—in fact, I might safely call him the father of the wholesale grocery trade in Canada—but he still takes an active and intelligent interest in his business, which is now undoubtedly one of the largest of any wholesale in Canada. Their offices and warehouse, I think, are not surpassed by any in the Dominion and none that I know of in the United States, and this is why I am writing these lines, for I had quite a chat with Mr. Hebert about business establishments generally. He suggested an idea to me that we, active men, in this very busy age, are apt to overlook, that is, our business surroundings. Some of us have very attractive establishments, but we make them so, not with an idea of our own comfort, but as a good advertisement of our business.

Mr. Hebert told me that he carried on business for many years in a cold, damp, badly-ventilated establishment, just as hundreds of other very successful men are doing to-day, without giving a thought to his surroundings. After working this way for years and injuring his health, he gave the matter some thought. He reasoned that a business man spends eight, ten or twelve hours a day of the best part of his life in his office or warehouse. It is the place in which he gets his enjoyment, for men, successful men, enjoy their business. It is the pleasure they get out of life. That being the case, why should we not make our offices as attractive and comfortable as we make our homes? Though we spend but little time in our homes outside of our sleeping hours, we are lavish in our expenditure in the decorating, ventilating, heating and everything that will make them comfortable. Why should we not then devote more attention to making our business places pleasant, and comfortable in every way?

We are all so busy that few, if any of us, have ever given thought to this idea as suggested by Mr. Hebert. It is a subject worthy of very serious consideration by every business man.

DECLINE IN INTEREST RATES.

As has been remarked in these columns before, says Bradstreets, the New York City Merchants' Association is strenuously objecting to the passage of a bill now pending at Albany which proposes reducing the rate of interest on loans in New York State from 6 to 5 per cent. The association has issued considerable literature defining the reasons for its opposition to the passage of the bill, its latest production being an interesting pamphlet containing information bearing on the amount of money on loan in New York and the number and character of borrowers and lenders. It is pointed out by the pamphlet in question, which is compiled in part from the census of 1890, as will be recognized, that there are 422,658 lot owners in New York State who have borrowed \$1,400,000,000 on bond and mortgage, 156,814 farm owners who have borrowed \$220,000,000 and 80,000 business firms whose loans aggregate \$320,000,000. The total interest paid in a year is about \$107,000,000. The average farm loan is \$1,403, and the average business and lot loan is \$3,440. The lenders include 1,736,968 savings bank depositors and an unstated number of life insurance policy holders and widows' and orphans' trust funds. These three classes of lenders have \$1,500,000,000 out in loans. The loans of the banks of discount and deposit amount to \$400,000,000. Trust funds and savings banks earn from three to four per cent. on their loans. The earnings of banks of discount and deposit have declined from 8.65 per cent. in 1890 to 4.99 per cent. in 1897. The average rate of interest on farm loans in 1890 was 5.66 per cent. and on lot loans 5.38 per cent., the present rate on mortgage security being 4½ to 5 per cent. This reduction is due to the fact that since 1890 savings bank deposits have increased about 30 per cent., trust company funds have increased about 20 per cent., life insurance funds have swelled greatly and the total capital seeking secured loans has about doubled. Competition among lenders for sale loans has caused the interest rate to decline. On the other hand, the interest rate on ordinary mercantile loans has not declined because of the greater risk.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

COURTESY IN BUSINESS.

IT is a great mistake to suppose that politeness costs nothing, says a contemporary. It seems to cost some people a tremendous effort whenever they happen to be guilty of any business courtesy. They have the idea that a bullying, insolent manner lends dignity to them and that an abrupt style of speech is what people most admire in a business man.

And yet, these very men will wonder why they don't get on better in business. In spite of the genuine bargains they offer they are surprised that people keep away from their store. They do not see that their repellant manner has anything to do with it; they would, perhaps, be astonished to learn that sensitive people—and they are numerous—would sooner pay more money where they are courteously treated than be bullied or frowned upon at a genuine bargain counter.

An affable manner is a good advertisement in itself—a gruff and surly demeanor is a permanently bad one. Have not business men common sense enough to see this? If they are at all observant they can find plenty of evidences of it daily. Bad temper and a frowning face should have no place at all in a business house. Their only effect is to keep on killing trade.

However much at fault, it is not wise to reprimand an employe sharply in front of customers. Whatever the offense, curb your temper, at least until customers are out of sight and hearing. One can be firm and even severe without a display of temper. Frequently the customer would feel such an outburst as keenly as the employe who called it forth.

Sauve, polite manners in the proprietors, managers and salespeople are in themselves great attractions to a store or place of business. It becomes a positive pleasure to trade where you are sure of kind and courteous treatment. And, on the other hand, one is apt to dread going into a store where harsh tones, bickerings and fault-finders are the rule.

It is impossible to succeed in business nowadays unless you show a polite bearing toward those from whom you expect custom, and a well-managed house will see to it that all help are carefully trained in the one important point of good manners. Soft words and smiling faces bring back as many customers as low prices and attractive newspaper advertising, and the sooner merchants recognize this fact the better will it be for their business.

One hundred tons sulphur lately arrived for the new pulp mill at Mispic, which will begin running early in April. A second mill near St. John is about to be built.

UP GO SALES

THE SHERWIN-WILLIAMS PAINT

is bounding along the high road of progress: climbing still the hill of prosperity. The pace is getting faster and faster, and the ascent is being made with increasing easiness.

Our whole business is alive with energy, teeming with activity, and being pushed with the confidence and enthusiasm that comes with success.

You can't stop a rushing torrent—neither can you impede the overwhelming advance of S.W.P. It's gaining ground everywhere. Its sales are greater to-day all over this continent than ever before.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

Walter H. Cottingham,
Managing Director,
Canadian Department.

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

A PAINT MAN OFF FOR VICTORIA.

MR. W. H. EVANS, the local manager of The Canada Paint Company in Toronto, will leave for British Columbia in a few days, and, for the present, will take charge of the company's branch at Victoria, B.C., where The Canada Paint Company have extensive works and a very valuable connection.

We hear of Mr. Evans' departure with much regret, as, we need scarcely say, he is an energetic worker, extremely popular, not only in town, but amongst the numerous hardware merchants from all parts of Canada who visit Toronto. Along with Mr. J. H. Morin, of the firm of Messrs. R. C. Jamieson & Co., Montreal, he is one of the pioneers of the color and varnish trade in the Dominion, having pushed trade in every point from St. John's, Newfoundland, to Windsor and Sarnia, and the local trade, both wholesale and retail, will welcome Mr. Evans' speedy return.

For a quarter of a century Mr. W. H. Evans has been a continuous member of the Montreal Commercial Travelers' Association, and is also a member of the Toronto Commercial Association, as well as a member of the Mutual Benefit Society. He is a member of the St. George's Society, a direc-

tor of The Toronto Lead and Color Company and is a shareholder of The Canada Paint Company, besides other mercantile corporations. Mr. Evans is on the executive committee of the Toronto Turpentine and Linseed Oil Association. As a much valued contributor to the columns of *HARDWARE AND METAL* under sundry nom de plumes, his articles, being practical and valuable, have been widely read and appreciated, and we anticipate a hearty and cordial welcome from the hardware and kindred trades during his sojourn at the Coast. In the absence of Mr. Evans from Toronto, Mr. J. W. Lee will take charge, and the interests of the company will be well looked after.

TORONTO SILVER PLATE CO.'S OFFICERS.

The adjourned annual meeting of The Toronto Silver Plate Co., Limited, was held at the company's offices on February 23. The meeting was a satisfactory one, indeed. The only change in the directorate was the election of Manager Gooderham in the place of Wm. Biggar. At a subsequent meeting of the board, Mr. W. H. Beatty was reelected president and Mr. Alfred Gooderham vice-president.

ALL FOR A PENNY.

Those were very interesting figures given by the managing-director of The South Metropolitan Gas Co., at their recent shareholders' meeting, showing the remarkably rapid progress in the use of pre-payment gas meters. They were introduced in 1892, seven years ago. For the first six months the company's receipts from this source were but £172; last year it was £183,600, all of it taken in copper pennies! They are now taking about 1,000,000 pennies a week, a mass that will weigh about nine tons. The advance has been very steady, £6,300 in 1893, £29,600 in 1894, £73,300 in 1895, £119,300 in 1896, £158,100 in 1897, and, as stated, £183,600 last year. It is very evident that the end is not yet, and that the possibilities of further growth are scarcely to be estimated. The great bulk of this supply is, of course, to a class of houses which would not, but for some check on consumption, have had a supply of gas at all, and, if the ironmongery trade were properly recognized in connection with this branch of gas work, it would mean a considerable advantage to the trade as a whole. Prepayment meters are bound to come into use more and more extensively every year. If the trade were fully organized, it could control this business, so far, at least, as regards the fittings required to consume this amount of gas.—Hardwareman.

GOVERNMENT ORDERS FOR PLATE AND CUTLERY.

In addition to the heavy orders that have recently been placed in Sheffield for cutlery and plate, the Admiralty are now asking for further very large quantities. They include 15,000 table knives, 19,000 dessert knives, 3,000 carvers (all of best steel and ivory handles), 8,232 dessert forks, 8,776 table forks, 96 fish carver forks, 8,000 dessert spoons, 5,000 table spoons, 9,000 tea spoons, 5,000 egg spoons, 1,500 cruets, 500 toast racks, 500 sugar-tongs, 250 waiters, 200 tureens, and a large quantity of knives for cooks and butchers; coffee sets, candlesticks, sugar basins, plate covers, and other kitchen and table requisites. The whole of the forks are to be made with sterling silver tips, to a depth of three-quarters of an inch, and the forks, spoons, and hollow-ware, are to be of the best electroplate. The tender for ivory cutlery is one of the largest that has been given out for some time. The increasing scarcity and dearth of best ivory will, undoubtedly, tend to restrict the use of it in the future. It is expected that further similar quantities will be required, as the battleships and cruisers the Government have on hand approach completion and have to be fitted out. The officers'

mess-plate is an elaborate and costly service. Hardwareman says that the placing of these large orders will greatly benefit the trades of Sheffield.

The Scranton (Pa.) Republican tells of a medicine man who advertises to cure certain diseases. One day a woman came to

him for treatment, and got \$150 worth of it. The doctor asked her how she had heard of him, and she said her husband, when taking up an old carpet in Buffalo, had found beneath it an old newspaper in which he saw the doctor's ad.

There is no telling now long an advertisement will live.—National Advertiser.

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and carefully selected; will double seam either way of grain; are fully equal in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinsplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

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FIRE ARMS or BICYCLES

stands for what is good.

IVER JOHNSON FIRE ARMS AND BICYCLES
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Agents and dealers are invited to write us for prices, terms, etc. Catalogues will be sent free on application.

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MUST BE SOLD

We are anxious to close out the entire stock in the warehouse of

AT ONCE Samuel, Benjamin & Co. AT ONCE

Among the goods which we offer away below Importers' and Manufacturers' costs, are the following staple lines :

Trowels, Pointing, Plastering or Brick ; Spokeshaves ; Turnscrows : Mechanics' Steel Rules ; Try Squares, Kents & Marple's ; Bevels, Marples' ; Gauges, Gimlets, Plumb Bobs ; Saw Sets ; Saddlers' Punches ; Compasses ; Dividers ; Calipers ; Pliers, Flat or Round Nose, Nippers, Gimlet Bits, Shell Bits, Nose Bits, Spoon Bits, Centre Bits, Countersunk Bits, Turnscrow Bits, Hollow Augers, Knitting Pins, Upholsterers' Needles, Packing Needles, Awls, Steel Figures and Letters, Taper Taps, Stocks and Dies, Pipe Reamers, Timber Scribes, Level Glasses, Pinking Irons, Spoke-shave Irons, Plain Irons, Disston's Hand Saws ; Disston's Rip Saws, Braces, Stubb's H. S. Files, Shoe Rasps, Wrenches, Butter Tryers, Ham Testers, Saw Handles, Bung Borers, Iron Escutcheon Pins, Finishing Nails, Copper Tacks, Shoe Nails, Hammer Heads, Mallets, Board and Log Rules, Cartridges, Meat Cutters, Shot Pouches, Powder Flasks, Ox Balls, Cattle Leaders, Ox Bow Pins, Emery, Corkscrews, Thermometers, Dog Collars, Pruning Shears, Fish Lines and Hooks, Pencils, Kettle Ears, Iron Burrs, Hook and Eyes, Bicycle Lamps and Cyclometers, Wood Fancy Planes, Meat Cutters, Nut Crackers, Curling Tong and Waving Irons, Can Openers, Tracing Wheels, Meat Hooks, Lemon Squeezers, Halter Chains, Plumbs and Levels, Stair Rods, Wood Bench Screws, Boring Machines, Bung Spouts, 60 M Eley's Job Shells No. 12, Sash Weights, Night Latches, Rim and Mortise Locks, Rim and Mortise Knobs, Escutcheons, Keys, Butts, Lock Staples, Thumb Latches, Store Door Handles, Barn Door Latches, Door Springs, Knob Spindles, Spring Hinges, all kinds Door Bolts, Door Chains, Push and Letter Plates, Door Bells, Bell Cranks, Door Buttons, Sash Lifts, Sash Fast, Shutter Bars, Cupboard Catches and Turns, Sash Supports, Hand Rail Brackets, Shelf Brackets, Flower Pot Brackets, Hand Rail Screws, Foot Scrapers, Boot Jacks, S. D. Sheaves, Axle Pulleys, Drawer Pulls, Gate Latches and Hinges ; Chandelier, Ceiling, Bird Cage, Lamp and Coat and Hat Hooks ; Shutter Knobs, Hooks and Staples, Chest Handles, all kinds Pulleys, Wood Taps ; Pad, Chest, Till, Cupboard, Desk Locks ; Casters, Brass Hooks, Pole Ends and Rings and Brackets, Oil Cloth Binding, Stair Buttons, Curtain Pulls, Picture Hooks, Blind Hinges, Transom Lifters, Chisels, Gouges, Augers, Car Bits, Striking Hammers, Blacksmiths' Hammers, Masons' Hammers, Brick Hammers, Machinists' Hammers, Clamps, Nails, Churns, Spikes, Steel Horse Shoes, Tug and Trace Chains, Lanterns, X Cut Saws, Pumps, Nuts and Washers, Hinges, Anvils, Vises, Asbestos Packing, Rubber Packing, etc., etc.

Also Plumbers' Supplies, Tinware, and Cutlery.

It will pay any Hardware dealer in Canada to visit Toronto and inspect this stock.

Orders filled as received, and to extent of stock.

Goods are all sampled, and easily inspected.

Come at once, if you want Bargains.

H. S. HOWLAND, SONS & CO.

TORONTO.

SIMPLIFICATION OF THE COLLECTION OF DEBTS.*

By W. E. Raney, Toronto.

CHEAP law means encouragement to the people to vindicate their rights. Dear law means discouragement to the people to vindicate their rights. If a man is discouraged from pursuing his legal rights he will in no long time lose the feeling of legal right. Hampden battled against the payment of an unjust tax because for centuries he and his forefathers had battled sturdily for their private rights. National sentiment rises no higher than its foundation head—the individuals composing the nation. Had the Roundheads not had the sense of legal right strongly developed, the Stuarts would probably still be absolute monarchs of Great Britain. A German writer declares with exact truth that in the shilling for which the Englishman stubbornly struggles the political development of England lies. The people who bravely assert their rights in the smallest matters will rest secure in their highest possessions.

Whenever justice is denied or unduly delayed, an injury is committed to the individual's feeling of legal right, and thus indirectly to the national strength, and the community accustomed to such denials and delays will, in time, come to look with complacency, if not with actual sympathy, upon the violator of the law as being like itself arrayed against the state power, the natural enemy of both. That the denials and delays may not be intentional on the part of the Government but only the result of a cumbersome and antiquated system of procedure will make little difference in the result. The general public is not over nice in discriminating between a system and its administrators.

This much in general vindication of the struggle for law procedure reform. The subject is a large one, but to-night we shall be concerned only with that branch of it having to do with procedure in the inferior civil courts.

Ontario has three distinct court systems for the trial of actions. Two of these are inferior courts, that is to say, their jurisdiction is limited. They have to do with the collection of claims up to \$200, and, where the amount is ascertained by the signature of the defendant, up to \$600. They are the courts, therefore, in which the great mass of the people have most interest.

The first question that naturally suggests itself is, why two inferior court systems? The same judges who preside in the County Courts also preside in the Division Courts within their respective jurisdictions. But not only is the procedure in the Division

Courts entirely different from that in the County Court, but a plaintiff's success in recovering his claim may depend upon whether it is below or above the line dividing the two jurisdictions.

In the Division Court a plaintiff may sue for damage up to \$60; on an open account up to \$100, and on a promissory note up to \$200. If his claim be above these figures he must go to the County Court. The line dividing the jurisdiction of the one court from that of the other is thus purely arbitrary. There is no reason whatever for it beyond the fact of its existence.

THE COUNTY COURTS.

I have said that the procedure in the County Court is different from that in the Division Court. The County Court is in fact the high court in miniature. The same rules govern procedure in both and the lower court has nearly all the frills known at Osgoode Hall. It is therefore unnecessary to say that the procedure in the County Court is even quite as cumbersome as that in the high court, and a glance at the reports of the Inspector of Legal Offices discloses the fact that relatively to the importance of the matters dealt with, the County Courts enjoy the distinction of being the most costly courts in the Province. Thus the total amount of the judgments recovered after trial in the County Courts in 1896 was a little less than \$24,000; the solicitors' costs taxed against the unsuccessful litigants under those judgments were a little less than \$20,000. The total amount of similar judgments in 1897 was less than \$25,000 and the total amount of the like costs allowed, a little more than \$24,000. These figures only, of course, include one set of solicitors' costs, and as in practice both sides in the County Court are always represented by solicitors, it is fair to assume that the costs for which the defeated litigants became liable to their own solicitors, were not less than those which they were ordered to pay to the other side. Thus the rather astonishing result is reached that every dollar for which judgment is recovered in the County Court after trial costs nearly \$2.00 in solicitors' fees and disbursements.

Some specific instances disclosed in the report of the Inspector of Legal Offices for 1897 are worth noting. In the County Court of the county of Bruce it appears that eight cases were entered for trial. In three of these judgments were entered up after trial. The total amount recovered by the successful parties (assuming that the judgments were paid) was \$315.52. The total amount of costs taxed was \$821.16 and

Emery and Hardware SpecialtiesHamilton, Ont. **COOKE HARDWARE CO.****Covert Mfg. Co.**

West Troy, N.Y.

DERBY SNAPCanadian Patent,
April 3 1897.With Plated Rust Proof and Guarded Spring.
"The Latest and Best." Sold by all Leading
Jobbers in Canada.**PRIEST'S CLIPPERS**

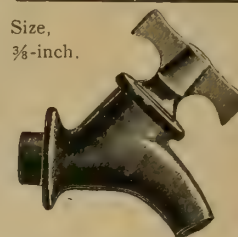
Largest Variety,
Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and
Sheep-Shearing Machines.
WE MAKE THEM.
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COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

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Price Lists on application

Size,
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Cheapest
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458 Quincy St.,
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THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne

All England Championship Cup, value £100, also stake £100, in all £200, on 7th December, 1898, the winner fired with our shot and writes us: "You will be pleased to hear I won the All England Championship Cup. **I fired with your chilled shot.** Indeed, I would not use any other, as I know from experience it makes the best patterns and kills best."

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Students have a larger earning power who acquire the following lines of preparation under our efficient system of training. It has no superior.

1. Bookkeeping,
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5. Civil Service Options.

Students may commence Telegraphing on the 1st of each month, and the other departments at any time.

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J. Frith Jeffers, M.A.
Principal.

*Paper read at the annual meeting of the Retail Merchants' Association, Toronto.

the total amount of disbursements allowed \$434.33.

In the County Court of the county of Elgin ten cases were entered for trial. In seven of these judgments were entered up after trial. The total amount recovered by the successful parties was \$478.06. The total amount of costs taxed was \$1,233.15 and the total amount of disbursements allowed \$696.74.

In the County Court of the county of Oxford eight cases were entered for trial. In five of these judgments were entered up after trial. The total amount recovered by the successful parties was \$330.86. The total amount of costs taxed was \$585.53 and the total amount of disbursements \$245.81.

In the County Court of the county of Peterborough four cases were entered for trial. Judgments were entered up in these four cases after trial. The total amount recovered by the successful parties was \$119.83. The total amount of costs taxed was \$364.47 and the total amount of disbursements allowed \$166.85.

In the County Court of the county of York one hundred and five cases were entered for trial. In fifty-four of these judgments were entered up after trial. The total amount recovered by the successful parties was \$6,580.38. The total amount of costs taxed was \$5,274.91 and the total amount of disbursements allowed \$1,570.05.

Of course in many cases the costs were in much lower ratio, but the above examples will indicate what is possible under the present County Court system, and if the County Court is not a popular court no other explanation of the fact than these figures will be necessary.

In 1896, 2,286 cases were entered in the County Courts of the Province, of which, however, only 357 went to trial; 101 cases were entered for trial in the Toronto County Court leaving only 256 cases for the 42 other County Courts of the Province, or an average of six cases for each County Court outside of Toronto.

In 1897, 2,266 cases were entered and 410 of these went to trial. Of that number 105 were entered for trial in Toronto leaving an average of seven for each of the other County Courts. In the same year in 16 of the County Courts four cases or less were entered for trial, and in almost every county in the Province outside of Toronto it frequently happens that not more than one case is set down at a sittings to be tried by a jury. The result is that a full jury panel has to be summoned to the county town for no other purpose, in case there should happen to be no criminal business, than the trial of that one civil case which might equally as well and much more economically have

Warnock's



Axes, Edge Tools and Lumbering Tools
are superior to anything else made or used in
Canada. Always buy "Warnock's."

James Warnock & Co., - Galt, Ont.

Brushes . .

— FOR THE SPRING TRADE.

Our New Catalogue

is now out.

Don't Fail to See Our Prices

before placing your Spring Order.

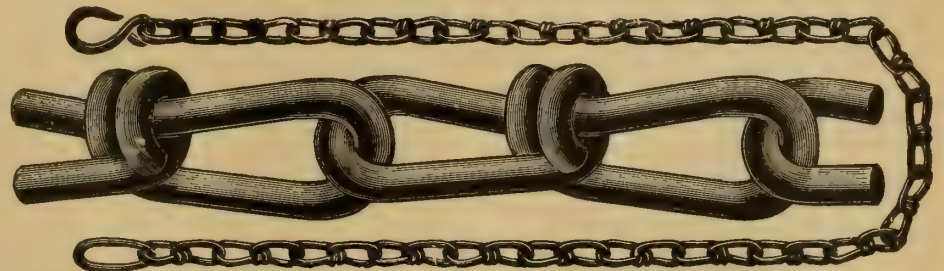
MEAKINS & CO.,

313 ST. PAUL ST.,
MONTREAL, QUE.

MEAKINS & SONS,

KING ST. EAST,
HAMILTON, ONT.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

WHEELBARROWS

all kinds.

MASONS' HODS

HANDBARROWS

SKIDS

WASHING MACHINES

Eastern Agent —

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22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works

CLELAND BROS. & CO.

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English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

been tried before the same judge sitting as he now does in the Division Court in the neighborhood where the cause of action arose, where probably the parties and the witnesses reside, with the assistance of a jury of five men summoned under the provisions of the Division Courts' Act.

THE DIVISION COURTS.

As between the County Courts and the Division Courts the latter are undoubtedly the popular courts. The reason is not far to find. They are comparatively speaking cheap, they are local and their procedure is expeditious. The costs in a Division Court case do not usually exceed \$5.00 or \$10.00, even for claims up to the limit of the jurisdiction of the court. The sittings of the Court are held where the parties reside or the cause of action arose, and if trial by jury is desired it is to be had at a trifling expense by a jury of five men. The circuit of the Division Courts in each county is required to be made at least once in two months so that parties do not have to wait long for the determination of their causes. In one respect, however, the procedure in the County Court has the advantage over that in the Division Courts. In the County Court a plaintiff may by paying sixty cents issue his writ against any number of defendants. He may then serve the writ himself or through his solicitors without permission from anyone. In the Division Court on the other hand he can only (except in cases involving \$10 or less) set the legal machinery in motion by paying a deposit of several dollars to cover the clerk's and bailiff's fees. He is not permitted to serve the summons himself, or, if as a special concession he is, he must pay the bailiff's charges just as though the work had actually been done by the bailiff. In other respects too the Division Court, particularly in cases involving small amounts, say \$50 or less, is too costly. By a late amendment to the Act the costs other than bailiff's charges in cases where \$10 or less is claimed, were limited to \$1.25. This was a step, though a very short one, in the right direction.

THE ENGLISH COUNTY COURT.

England has only one inferior court system. The country is divided into about 500 districts for County Court purposes. There are 57 County Court Judges, each of whom presides over from one to a dozen districts. Sittings are held in each district once a month and every action must be brought within the district where the defendant resides or carries on business, unless leave of the court to commence it elsewhere is obtained. On payment of one shilling in the pound of his claim, a plaintiff may issue a summons endorsed with a short statement of his cause of action. He may enter his claim with the clerk of the court either

personally or through the post and in cases involving not more than two pounds there are no solicitors' costs. The weakness of the English County Court system, like our own County Court system, is that it too much affects high court procedure. It has a complete and elaborate system of pleading and proceedings for obtaining discovery, etc., and costs, except in the petty cases last referred to, are ascertained by taxation, that is to say by putting a premium on circumlocution.

A NEW INFERIOR COURT.

With the Ontario County Court and Division Court Acts and the English County Court Act to draw upon, it would be an easy matter to frame a new inferior court system for this Province that would answer all the requirements of the case.

To start with, Ontario only needs one inferior court. That court should be called the County Court, but, like the English County Court, and like our own Division Court, its sittings should be local. In other words, the County Court judges should try all cases up to the limit of the County Court jurisdiction in the immediate locality where the cause of action arose or the parties reside.

The English system, under which the creditor can commence his action by simply taking or sending a memorandum of his claim to the court and paying a shilling in the pound deposit to cover court costs, is a great improvement over the practice in both our inferior courts. If that plan were adopted here, a man with a claim of, say, \$20, would pay on entering his claim, \$1, and then would be quit of court expenses, except witness fees in case there should be a contest.

High court procedure ought to be abolished from the inferior court. The theory is, that under the present elaborate system of pleading and rules for obtaining discovery, each side comes to trial with notice of the case the other side is seeking to make. The fact is that pleading and discovery in nine cases out of ten are the purest farces, and are productive of nothing but solicitors' costs. The court ought to have power, on the application of either party, to order pleadings or discovery of documents, but unless costs were given on such applications, it is safe to say, they would not be very frequent.

And that suggests the question of costs. At present, there are no costs in the Division Court, except that, in cases involving above \$100 which go to trial, the judge may, in his discretion, allow a counsel fee up to \$10. Something is to be said in favor of the indemnification of a party, whom another's default or wrongful conduct has compelled to seek redress in the courts, from the costs

often necessary of employing a solicitor. If it were provided that, in every case in which a defence was entered and judgment subsequently delivered for, say, \$20 or more, the judge might, in his discretion, allow, in addition, up to 10 per cent. of the amount recovered, or, in the event of the claim being disallowed, 10 per cent. of the amount of the claim, as an indemnity against solicitor's costs, substantial justice would probably be done. By this plan, the costs would be strictly limited, and, at the same time, some relief would be secured to the person who had been forced into court for the vindication of his rights or to answer the unfounded claim of another.

The garnishment clauses of the Division Court Act, under which debts due the defendant may be attached either before or after judgment has been recovered, work well, and should be a feature of the new court.

So ought the judgment summons process, under which a creditor may ascertain what means his debtor has of paying his claim, and may get an order for periodical payments, according to the debtor's ability to pay. This feature of the law might, with advantage, be modified so as to provide, as is done in the English Act, that the plaintiff may, in his summons, ask for payment in instalments, so as to avoid the necessity for the expense of a second court proceeding by way of judgment summons, with its attendant expense.

The present Division Court jury system works well, and would be equally effective in cases up to the present limit of the County Court jurisdiction.

What would be the advantages of the reform system?

1. Uniformity. We would have one inferior court, with one system of procedure, instead of two inferior courts, with two systems of procedure.

2. Simplicity. The new rules would be designed to meet the demands for business methods in the courts and not to exemplify the great doctrine of how-not-to-do-it.

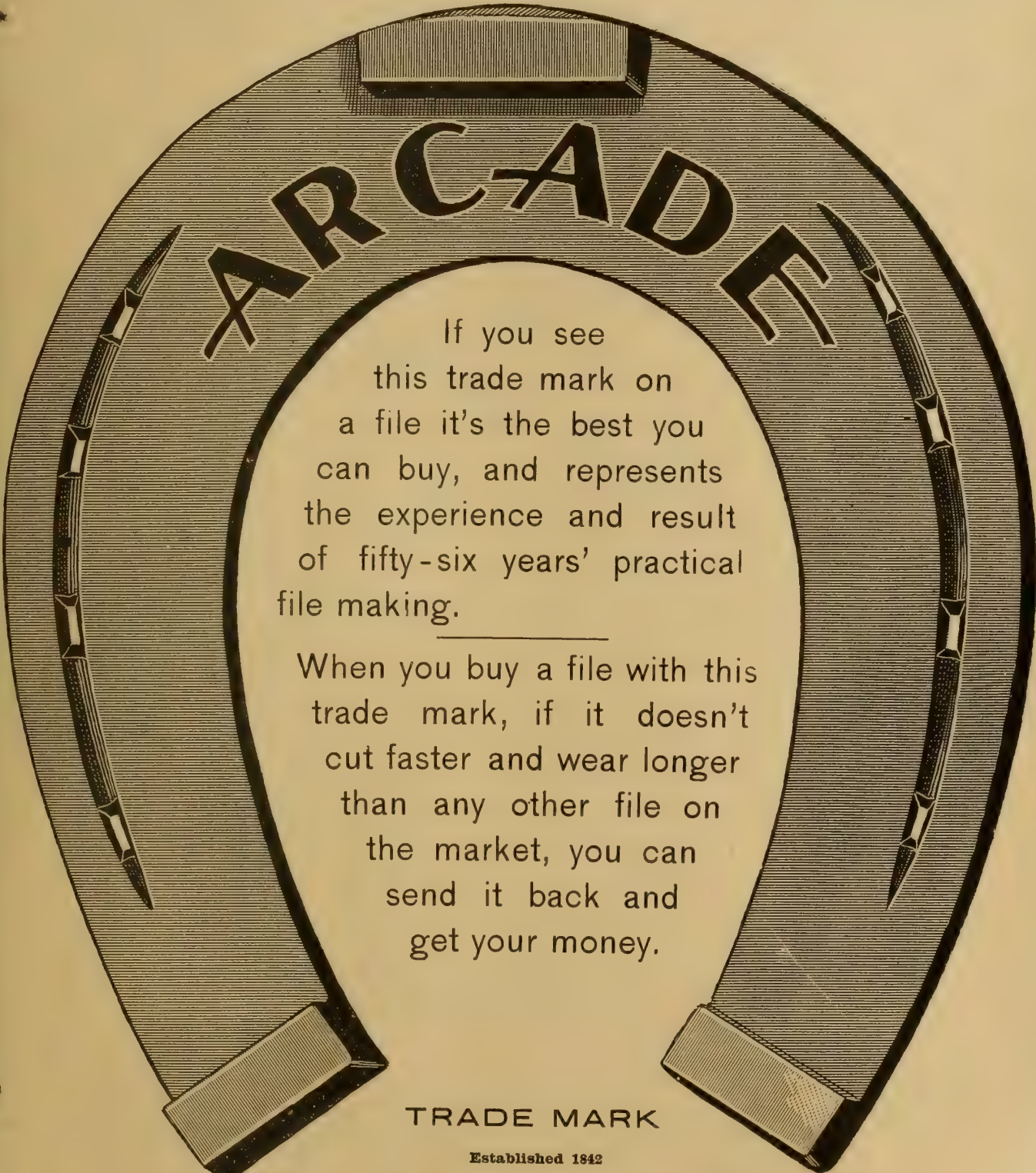
3. Expedition. In Toronto there are four sittings of the County Court for the trial of jury cases and two sittings for the trial of non-jury cases each year; the Division Courts sit every week. The proposal is that the new court should sit as frequently as the present Division Court.

4. Convenience. Parties, witnesses and jurors would not be compelled to go to the county town often at the expense of traveling a long distance and of several days' time to attend upon County Court cases.

5. Cheapness. Under the new system, cases which must now be tried in the County Court would be disposed of at about one-tenth of the present cost to the parties.

Fifty-Six Years Making Files

We ought to know how.



ARCADE

If you see
this trade mark on
a file it's the best you
can buy, and represents
the experience and result
of fifty-six years' practical
file making.

When you buy a file with this
trade mark, if it doesn't
cut faster and wear longer
than any other file on
the market, you can
send it back and
get your money.

TRADE MARK

Established 1842

THE ARCADE FILE WORKS

Works, ANDERSON, IND.

COURTLANDT C. CLARKE,
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NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
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CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

And, as to cases within the present Division Court jurisdiction, there would be no good reason why a creditor up to the amount of, say, \$50, should not get judgment at an expense, so far as court fees are concerned, of \$1. If he were allowed to serve the summons himself that would be the entire cost of recovering judgment outside of witness fees. From \$1 the court fees might be graduated up to \$4 or \$5, according to the amount of the claim, these fees to cover all court charges down to and including judgment except bailiff's charges, and plaintiffs to be at liberty to serve the summonses themselves if they wish. The greatly increased volume of business which would be certain to result from a tariff of fixed and moderate charges would more than compensate the officials concerned for any reduction in fees.

And to the municipalities the saving in expense would be very considerable. In each of the 43 County Court districts full jury panels are summoned to the county town twice each year to try criminal and County Court cases. Each juror is entitled to be paid mileage and \$2 per day while in attendance and while going to and returning from court. It is not an uncommon thing for jurors to be summoned from points 50 miles from the county town. In Toronto there are always criminal cases to be disposed of, but in the outer counties it frequently happens at a sitting of the court that there are no criminal cases. When this state of things exists the summoning of the jury might be dispensed with if there were no civil jury cases, but if there should be one jury case a full jury panel must be summoned, and the county thus put to an expense of several hundred dollars to try one case, which, under the new system, would be tried without any expense to the county at the sittings of the court nearest where the parties reside.

The foregoing is necessarily a very brief outline of the proposed reform. It will be easy to suggest points that have not been touched, or improvements upon some of the suggestions I have ventured to make. But my purpose will have been served if, on the one hand, I have succeeded in pointing out the glaring defects of the present system, and, on the other hand, in suggesting in outline the salient features of a new and improved system. With the present court system before him as a guide, the practical lawmaker will have little difficulty in selecting the details necessary to fill in the outline.

It is safe to say that the general public and the municipalities will welcome any reform that will cheapen and simplify, without impairing, the administration of justice. But what about the County Court judges

and officials and the legal profession, and, lastly, what about the Legislature?

As to the judges and court officials, they are the servants of the public, and it is to be assumed that they will readily fall in with any scheme that is for the general good. There are 63 County Court judges in Ontario, as against 57 County Court judges in England, with its population and wealth many times greater than ours. The 60 judges outside of Toronto each try an average of four or five County Court cases a year. In addition to this, they go on Division Court circuit and perform certain High Court, Surrogate Court and municipal duties, which are, however, for the most part, more formidable in the enumeration than in the performance. Few of the judges will, I venture to think, be heard to complain if the sphere of their activity is somewhat widened.

As to the members of the legal profession, there is among many of them, undoubtedly, a prejudice against change in legal procedure. But the time has come when the profession ought to see that, in its own interests, procedure, especially in the inferior courts, must be simplified and cheapened. The feeling that a lawsuit anywhere outside the Division Court may mean ruin to both parties is both widespread and well founded. In fact, it has come to this, that the only fearless clients are corporations and insolvents—the former possibly because they have no consciences, and the latter because they have nothing to lose.

In the Legislature, the proposed reform will, I believe, have nothing to fear. It is not a party question. The responsibility of the Attorney-General and of the leader of the Opposition in the matter are equal. It only needs that it shall be pressed forcibly upon the attention of the House. Legislative reforms come always from the people. Parliaments, as a rule, move as they are impelled from without. Laws are only memoranda of public sentiment. It follows that the lawmakers must follow public sentiment, not lead it. They are justified in making radical changes in the law when such changes are demanded by the people, not before.

MONTREAL HARDWARE LEAGUE.

One of the best matches played this season in the hardware league took place last Thursday evening in the Crystal rink, when the teams representing the firms of Thomas Robertson & Co. and Caverhill, Learmont & Co. met for the championship.

The match was a good exhibition of hockey, and, although Robertson's team put up a hard fight, the best team won. J. Pow scored the first game for Thomas

Robertson & Co., and J. Davidson landed the second in favor of Caverhill, Learmont & Co. By an unfortunate piece of hard luck, Beatty scored the third game against his own team by accidentally knocking the puck through his own goal, putting Caverhill's team in the lead. Briegel scored the fourth game, and the match ended three to one in favor of Caverhill, Learmont & Co. The teams and officials were as follows:

C. L. & Co.		T. R. & Co.
J. Donnelly	Goal	W. Beatty.
A. Bain	Point	W. A. Irving.
F. Newman	Cover Point	F. McGinnis.
E. Briegel		J. Pow.
A. Bremner	Forwards	S. McKenzie.
J. Davidson		H. Orsali.
F. Cockburn		R. Vallance.
C. McLean	Umpires	G. Keyworth.
Referee—C. McKerrow.		

A PLACE WHERE PAINTS ARE MADE.

Among the many best and greatest things that North America possesses, certain manufacturing establishments always stand out conspicuously. This is notably true of The Sherwin-Williams Company, the home plant of which, at Cleveland, Ohio, holds a unique position in the manufacturing world.

Besides the main plant at Cleveland, The Sherwin-Williams Company have factories at Chicago and Montreal, and their own warehouses and branch offices at New York, Boston and Toronto, with several auxiliary interests at other trade centres.

The Cleveland plant consists of fifteen large buildings conveniently arranged for shipping both by railroad and water. The Company's printing and advertising establishment is in a separate building adjacent to the main plant. Here all the printing and preparation of advertising and sample cards are carried on. The Sherwin-Williams Company operates its own box factory and cooperage establishment, and makes all its own cans. For the convenience of employees a dining room and kitchen is provided where lunches are served to all the employees of the company. Special washroom and bathrooms are also provided, while perhaps the most unusual feature in the establishment is a laundry in which all the company's towels, aprons, table linen, etc., are laundered. The Sherwin-Williams Mutual Benefit Association has been in successful operation for a number of years, paying benefits to the employees who become members, in case of sickness, accident and death. A monthly magazine called "The Chameleon" is printed for circulation among the staff of workers in the manufacturing, sales and account departments of the company.

The company always extends a cordial invitation to visiting paint dealers who desire to inspect their factories.

G. W. Ray, general merchant, Newdale, Man., is reported as giving up business.

ESTABLISHED 1803.

Hall's

Patent

A paint mixed
and thinned with
water that
dries perfectly
washable.

TRADE



MARK

GRIFFIN AND SHIELD BRAND

WASHABLE
WATER PAINT

Made in 60 beautiful
shades. Put up in 5 and
10-lb. pails with Penny
Lever Covers.

The house-cleaning
season is almost on us. Don't
forget that **W. W. P.** is a thorough
disinfectant and cleanser as well as
a perfect paint. Walls once paint-
ed with this paint can be washed
and kept clean.

For outside work as well as in-
side it is one of the best preserv-
ers known.

Write for shade cards and particulars to

SISSONS BROS. & CO.

Of Montreal, Limited.

Manufacturers

CANADIAN DEPARTMENT:

C. R. McDowell, Manager

Offices: 821 Craig Street
Works: Canal Bank

 MONTREAL.

VARNISHES

PAINTS

COLORS.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, March 3, 1899.

HARDWARE.

GENERAL hardware circles are very busy at the moment, and the steady rise in prices that seems to be the regular accompaniment of each week makes matters decidedly interesting to both buyers and sellers. All kinds of wire material, such as barbed and plain wire, wire nails, etc., have had another sharp jump this week, and, as billets are still pointing higher, a further rise is not at all unlikely. Hinges are steady at the rise, and screws of all sorts have been advanced 5 per cent. this week. Inquiry is brisk for all kinds of material, but jobbers are disposed to operate very carefully in the matter of forward orders owing to the great uncertainty prevailing regarding values.

BARBED WIRE—There has been another advance in the price of barbed wire, which is 25c. higher than it was last week, the f.o.b. price now being \$2.55 here. Galvanized staples are also higher, 100 lb.,

\$2.90, and bright do., \$2.50, with an advance for 50's.

PLAIN WIRE—The base price on oiled and annealed wire has been advanced 25c. per 100 lb. to \$2.10, with smaller sizes net; extras on base price. American plain galvanized wire is firmer, also No. 9 \$2.30; No. 12, \$2.50, and No. 13, \$2.60.

WIRE NAILS—The advancing tendency continues and prices are 30c. higher than they were last week, with car lots quoted at \$2.30, and smaller quantities \$2.35. Demand is very brisk, but jobbers are not selling ahead to any extent, as they are afraid of further advance.

CUT NAILS—Prices on cut nails are still unchanged on the basis of \$1.75 f.o.b. and inquiry is fair.

HORSE NAILS—There is only a moderate trade passing, and prices are unchanged. Discounts are 50 per cent. on Standard and 50 and 20 on Acadia brand.

HORSESHOES—There is a fair trade moving. We quote as follows: Iron shoes, light and medium pattern, \$3.15; snow shoes,

\$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—The demand has been good, and prices this week are much higher all round. Discounts are: Flat head bright, 85; round head do., 77½; flat head, brass, 77½; round head, brass, 70. Machine screws, iron and brass, flat head, discount 20 per cent.; round head, 15 per cent.

BOLTS—There is a good demand for these. Discounts are: Carriage bolts, ¼ to 5-16, 70 per cent.; ¾ and up, 60 and 10; machine bolts, ¼ and 5-16, 70 per cent., and ¾ and up, 65 and 10; stove bolts, 70 and 5; tire bolts, 70 and 5, and sleighshoe bolts, 80 per cent.

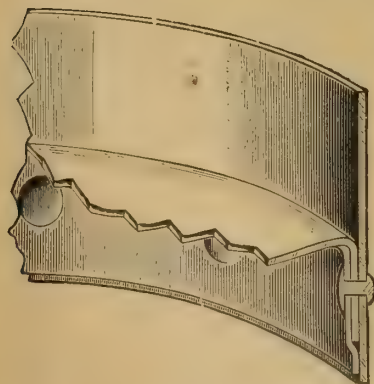
RIVETS—A steady, quiet trade is noted. Discounts are 65 per cent. on black and tinned, and 37½ on copper rivets.

CORDAGE—There is no change in cordage, and business has been quiet. We quote as follows: Sisal, 9¼ to 9¾ c. for 7-16 and upwards, and manila, 10¼ to 10¾ c.; smaller sizes, 1c. advance on these figures.

MILK CAN TRIMMINGS

BROAD HOOP PATTERN

The Strongest Bottom Made.



Cut of section of bottom.

Inner band ¼-inch above the outside bands.

Cannot tear away.

Nothing to wear away.

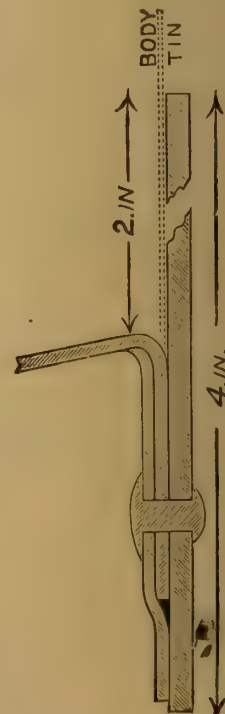
Nothing to break.

No place for dirt to lodge.

The body tin can be inserted 3 16-inch into cavity between bottom and outside band.

Solder cannot crack.

Bottom cannot spring.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The **McClary Manufacturing Company**

LONDON

TORONTO

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WINNIPEG

VANCOUVER



What is the standard galvanized iron?

Apollo.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited
BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

CANADA IRON FURNACE CO.,

Limited
Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

GREEN WIRE CLOTH—Business is good for future delivery.

HINGES—These are firm as last noted, heavy T and strap being stiff at \$4, while light ditto are 70 and 5 off the list.

SHOT—A good trade is passing at 6c. for ordinary, and 6½c. for chilled.

CUTLERY—There is a fair movement in cutlery.

CEMENT—Without change. We quote : English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Quiet and featureless at \$18.50 to \$24.

METALS.

The heavy iron and metal market reflects little change here. Outside there has been some reaction recorded by tin and copper from the top prices noted last week, but the fact has not influenced spot prices. In fact, the general tendency is firm, and with a well maintained inquiry no particular change is noted.

PIG IRON—Holders here are asking higher prices ex yard now on Scotch pig iron, the inside price for round lots now being \$21, and for small lots of Summerlee and equal brands, \$21.50. No. 1 Hamilton iron is held at \$16 to \$16.50, and Ferrona, at the same price.

BAR IRON—In good inquiry and firmly held at \$1.40 for car lots, and \$1.45 for less.

HOOPS—Values are advancing in the United States, but there has been no change here from \$2 as the base price.

SHEET IRON—Advices this week supplement the strong advices already received from England in regard to sheet iron. Makers there are full of orders. We quote : 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Several United States makers have withdrawn their prices, and spot prices are 10c. higher than they were. We quote : 10 to 16, \$2.60; 18 to 20, \$2.40; 22 to 24, \$2.45; 26, \$2.65; and 28, \$2.70.

SLEIGHSHOE AND TIRE STEEL—The base price on sleighshoe and tire steel is now held higher at \$1.80 for sleighshoe, and tire steel \$1.80 per 100 lb.

GALVANIZED IRON—There is a good inquiry noted for this, but no change has resulted. We quote : No. 28 "Queen's Head," \$4.25 to \$4.50, and "Comet" brand, \$4 to \$4.25.

INGOT COPPER—A somewhat easier feeling has been exhibited outside, but here in Montreal prices are steadily held at 18½ to 19c.

SHEET COPPER—Firm at the rise noted the other week, plain 25c. and tinned 27c.

INGOT TIN—While round lots have been

**Ingot Tin
Copper
Spelter
Pig Lead**

Close prices on carload lots.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

NO SCREWS

JUST BORE

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

had for less money this week, the jobbing basis is unchanged for 27c.

PIG LEAD—There has been business in round lots of pig lead underneath our quotations, but, in an ordinary jobbing way, $4\frac{1}{8}$ to $4\frac{1}{4}$ c per lb. is a fair quotation.

LEAD PIPE—In good demand and steady. Ordinary, 7c., and composition waste $7\frac{1}{2}$ c., with discounts $17\frac{1}{2}$ per cent.

IRON PIPE—There is a good movement in this material. We quote: Black pipe, $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch, and $\frac{1}{2}$ -inch, \$2.35; $\frac{3}{4}$ -inch, \$2.80; 1-inch, \$3.85; $1\frac{1}{4}$ -inch, \$5; $1\frac{1}{2}$ -inch, \$6.70, and 2-inch, \$9. Galvanized, $\frac{1}{2}$ -inch \$3.95; $\frac{3}{4}$ -inch, \$4.80; 1-inch, \$6.65; $1\frac{1}{4}$ inch, \$9.15; $1\frac{1}{2}$ -inch, \$11.75, and 2-inch, \$16.

CANADA PLATE—Advices from England note higher prices, and jobbers here are asking 5c. more in some cases, though they still quote the old inside figure. We quote: 52's, \$2.20 to \$2.25; 60's \$2.30 to \$2.35; 75's, \$2.40 to \$2.45; full polished, \$3.10; galvanized Canada plate, \$4.00 for 52's.

TINPLATES—There is an active inquiry for these, and stocks are very light, and cokes are 10c. higher than they were. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I.X., \$5; Bradley's, \$5.80.

TERNE PLATE—Importers who tried to place orders this week were asked an advance of 9d. on previous bids. Demand here is good at the rise, and we quote \$6.50 per 100 lb.

COIL CHAIN—Makers have again withdrawn prices on coil chain, and, as a result of this, the jobbing basis is once more advanced. We quote as follows: No. 6, 9c $\frac{1}{2}$; No. 5, 8c.; No. 4, $7\frac{1}{4}$ c., and No. 3, $6\frac{1}{4}$ c. per lb.; $\frac{1}{4}$ -inch, \$5.25; 5-16, \$4.00; $\frac{3}{8}$, \$3.60; 7-16, \$3.45; $\frac{1}{2}$, \$3.30; 9-16, \$3.15; $\frac{5}{8}$, \$3.00; $\frac{3}{4}$, \$2.90, and $\frac{7}{8}$ and 1 inch, \$2.75 per 100 lb.

SHEET ZINC—Stocks are light and prices firmly held at 7 to $7\frac{1}{2}$ c.

ANTIMONY—Unchanged at the rise, 10 to 11c.

SPELTER—Quiet but firm, V.M., \$6.75; S.S., \$6.50.

SWEDISH IRON—Firm but unchanged at \$3.25.

GLASS.

In good demand, with prices firmly held. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The paint and oil market continues a very lively one, and makers state that trade was never better at this season than it is at present. Values show some decline on dry

white lead, red lead and white zinc, but all the others are unchanged.

WHITE LEAD—Best brands, Government standard, \$5.87 $\frac{1}{2}$; No. 1, \$5.50; No. 2, \$5.12 $\frac{1}{2}$; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, $5\frac{1}{2}$ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at $37\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, $13\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c.; 1-lb. tins, $15\frac{1}{2}$ c.

PETROLEUM.

In fair inquiry. We quote as follows: "Crown Acme," $15\frac{1}{2}$ c., Canadian refined, $14\frac{1}{2}$ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, $19\frac{1}{2}$ c.

ASHES.

Ashes unchanged. First pots, \$4.40, and seconds, \$4.15.

HIDES.

Quiet. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Screws of all sorts are 5 per cent. higher this week than they were last.

Jobbers are asking 5c. more on small lots of Canada plates and 10c. on coke tinplate.

White zinc lead, red lead and dry white lead are hardly as firm as they were a fortnight ago.

Coil chain has been advanced by jobbers here 50c. per 100 lb. owing to an advance in the United States.

Barbed wire, wire nails, oiled and annealed wire, in fact, all wire material is 25 to 30c. higher than it was.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

**JOHN FORMAN, 650 Craig Street
MONTREAL**



Force
Lift
Cistern
Pumps

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
Galt, Canada.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

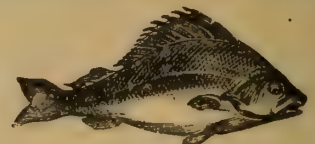
Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

Fishing Tackle.



ALLCOCK'S STAG BRAND



TRADE MARK

The Alcock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

ONTARIO MARKETS.

TORONTO, March 3, 1899.

HARDWARE.

BUSINESS during the past week has been of an interesting character. There is a larger trade being done, and there have been some advances in prices. Barbed wire has been marked up to \$2.50 per 100 lb., and wire nails are now quoted at \$2.40 per keg. Smooth steel wire shows a further advance, and is now quoted at \$2.30 factory point. The demand for wire nails is good, and, while no change has yet taken place in the price of cut nails, a fair volume of business is to be noted. Screws show a further advance. The bolt trade continues to improve. In rivets and burrs there is not much doing, and prices are steady. There is a little more being done in rope, particularly in booking orders for future delivery, but trade in this line is not active. Enameled ware is moving nicely, and the same may be said of pressed ware. Sap buckets are in good demand, and retailers are beginning to look around for prices for "Blue Flame" oil stoves. Orders are being booked freely for green wire cloth, poultry netting, spades and shovels, churns, wringers and screen doors and windows. Cutlery is going out fairly well. Eave-troughs are firmer, in sympathy with an advance in the United States, although no change in figures has yet taken place in Canada.

BARBED WIRE—There has been a further advance in this line, in sympathy with the higher prices which have been inaugurated in the United States this week. The price for two and four point barbed wire f.o.b. Toronto is now \$2.50; safety barbed wire, \$2.75; plain twist, \$2.50. Staples have also been advanced, and galvanized are quoted at \$2.75 per 100 lb., and bright \$2.50 per 100 lb. The advance in the United States is 25 per cent. per 100 lb.

SMOOTH STEEL WIRE—There has been another advance, this time of 25c. per 100 lb., the base figure, f.o.b. factory point, now being \$2.30. There is not much business being done.

FINE STEEL WIRE—Trade is fairly good, especially in tinned wire. The discounts are unchanged at 25 per cent. factory point.

WIRE NAILS—The price of wire nails is getting close to \$2.50 per keg, for \$2.40 per keg is now being quoted for Toronto and the west; for shipment east of Toronto the figure is \$2.35 per keg. This advance is in sympathy with a further increase in the United States, figures in both Pittsburg and Cleveland being 25c. per keg higher than a week ago. Trade is fairly brisk in Canada.

CUT NAILS—The demand for these is

YOU CAN LAY Eastlake Shingles

Quicker than any others.

Their patent side lock makes them absolutely leak proof, and also quick and easy to apply—each shingle is accurately squared, and they fit together perfectly without any trouble.

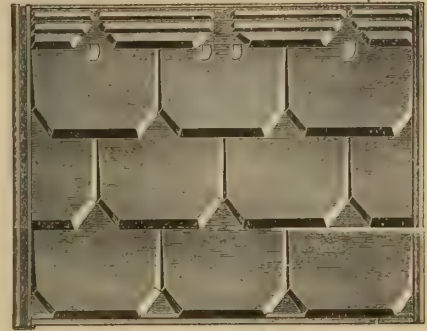
You can't obtain more durable, economical protection, and the time saved in laying them is still more "to the good."

**THEY ARE GALVANIZED OR PAINTED
FIRE, LIGHTNING AND RUST PROOF.**

If you haven't them in stock, write now for our catalogue and price list.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.



still being somewhat influenced by the high price of wire nails. Although no change has taken place in price, people are naturally protecting themselves against a possible appreciation in values. We still quote \$1.75 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—The demand is still light. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business is still moderate. We quote as follows: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—There has been a change in the discounts on wood screws, resulting in an increase in the price. The discounts are now as follows: Flat head bright, 85 per cent. off the list; round head bright, 77½ per cent.; flat head brass, 77½ per cent.; round head brass, 70 per cent.; flat head bronze, 70 per cent.; round head bronze, 65 per cent. Terms, 4 months or 3 per cent. 30 days.

BOLTS—There is a good trade being done in machine, stove and tire bolts, and business is beginning to pick up in plough bolts. Prices are unchanged. We quote as follows: Common carriage bolts, 5-16 inch, 70 per cent.; ditto, ¾ and larger, 60 and 10 per cent.; full square bolts, 70 and 10 per cent.; Norway carriage bolts, 70 and 10 per cent.; tire bolts, 70 and 5 per cent.; machine bolts, 5-16 and under, 70 per cent.; do., ¾ and larger, 65 and 10 per cent.; coach screws, 75 and 10 per cent.; blank bolts, 60 and 10 per cent.; sleigh shoe bolts, 80 per cent.; plough bolts,

60 per cent.; stove bolts, 70 and 5 per cent.; tire bolts, 70 and 5 per cent. Nuts, square, all sizes, 4¾c.; hexagon, 5¾c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—Business continues just moderate, with prices as before. We quote: Carriage section, wagon box rivets, etc. (steel), 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The manila hemp market keeps firm, and sisal hemp shows a decidedly firmer tone, on advices from Mexico stating that very little hemp was being offered there. There is a little better movement in rope on the Canadian market, but the orders are not large. It is the general opinion that stocks are, as a rule, low. Quotations are as before. We quote: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—There is some business being done in the way of booking orders for future delivery. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—There is not much doing, and prices are unchanged. We quote: Plain building, 30c. per roll; tarred

lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—Is still being booked fairly freely for future delivery at \$1.02 per 100 square feet.

POULTRY NETTING—Quite a few orders are still being booked for future delivery. Discounts are unchanged at 50 and 5 per cent.

WARE—Enameled ware is moving nicely in the staple lines. A good many people are stocking up pressed ware for the dairy season.

SPRING SPECIALTIES—Sap buckets are in good demand, and dealers are beginning to look around for blue flame oil stoves, although they are not yet placing orders.

EAVETROUGHS—There has been an advance of from 10 to 12½ per cent. in the United States in this line, and there is a firmer feeling in Canada as a consequence, although no change in figures has yet taken place.

BINDER TWINE—A fairly good business is being done in the way of booking orders.

METALS.

Jobbers in Canada have been advised of a further advance in the price of galvanized iron and black sheets of United States manufacture. The Canadian rolling mills have advanced their price on bar iron another 5c. per 100 lb. The American manufacturers have withdrawn their quotations on coil chain, and up to the time of going to press the jobbers have not received any new figures. The tin market, although somewhat lower, does not seem to cause any alarm. Local quotations are as before. The copper market rules steady. The pig lead market is a little easier on account of freer offerings. The spelter market remains steady. Antimony is a little easier.

PIG IRON—The pig iron market keeps strong, although there is not very much business being done.

BAR IRON—The price is 5c. per 100 lb. higher and we now quote \$1.60 from stock and \$1.50 from factory.

BLACK SHEETS—Jobbers here have been notified by the manufacturers in the United States of another advance in black sheets of 10c. per 100 lb., making the manufacturers' price 70c. per 100 lb. above the figures ruling in December last. At the time of going to press the jobbers in Canada have not, however, made any change in prices, and 28-gauge is still quoted at \$2.85 per 100 lb. Trade is quiet.

GALVANIZED IRON—Manufacturers in the United States have notified the jobbers here of a further advance of 25c. per 100 lb. in the price of galvanized iron. Local quotations at the moment are, however, unchanged, although they are even rather below the laid down price ruling to-day.

American galvanized iron is \$1.15 per 100 lb. dearer than it was in December last. We quote: "Queen's Head," 16 gauge, \$3.90; 18 to 24, \$4.15; 26 gauge, \$4.40; 28 gauge, \$4.65. American makes, 16 gauge, \$3.50; 18 to 24, \$3.65; 26 gauge, \$3.90; 28 gauge, \$4.25. "Gordon Crown," 28 gauge, \$4.25; 26 gauge, \$4. Less than case lots are quoted 25c. per 100 lb. higher than above figures.

COPPER—The copper market is just steady, with business quiet. Local quotations remain unchanged at 17½ to 18c. for ingot.

PIG TIN—This market has been a little easier, prices in London being £7 5s. per ton lower than a month ago. However, a year ago, pig tin was selling in London at £65 per ton, against £106 15s. at present, while, in New York, prices are now about 9c. per lb. higher than a year ago. According to official data, there are 500 lb. more of tin in sight than a month ago. The local market is quiet, and prices unchanged at 28c. for Lamb and Flag, and 27½c. for Straits.

TIN PLATES—There has been an advance of 10c. per 100 lb. in ordinary brands of charcoal, \$3.60 instead of \$3.50 per 100 lb. now being the figure for I.C., usual sizes. Very few orders are being received just now.

CANADA PLATES—The importers have been notified of an advance in Canada plates which will increase the laid down cost 17c. per 100 lb. No changes have yet been made in local quotations. A good many inquiries for Canada plates are being received by the jobbers from dealers who did not book orders. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2.60, and all dull, \$3.10.

PIG LEAD—The outside markets are a little easier on account of freer offers, but locally there is no change, 4¼c. per lb. being the idea as to price.

LEAD PIPE—Business is fair for the season and we quote: Ordinary pipe, 7c.; waste, 7½c. Discounts, 17½ per cent.

IRON PIPE—Business is good and prices firm. We now quote: Black pipe, per 100 lb, ¼ to ½ inch, \$2.35; ¾ inch, \$2.80 to \$2.95; 1 inch, \$3.85 to \$3.95; 1¼ inch, \$5.10 to \$5.30; 1½ inch, \$6.75 to \$6.90; 2 inch, \$9.10. Galvanized, ½ inch, \$2.45; ¾ inch, \$5.40; 1 inch, \$7.35; 1¼ inch, \$10.95; 1½ inch \$13.15; 2 inch, \$17.85. Cast soil, 2, 3, 4, and 5 inch, 60, 10 and 5 per cent.

RANGE BOILERS—There is still a fair trade being done. We quote: Galvanized, 30 gals., \$5.50; 35 gal., \$6.50; 40 gal., \$7.50; copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 25 per cent.

TINNED IRON—We quote: 30 x 72 (24 gauge), 6c. per lb.; cut sizes, 5¼c. per lb.

COIL CHAIN—The jobbers have been notified of the withdrawal of prices by the American manufacturers, and up to the time of going to press no new figures have been received. There is not much business being done. We quote as follows: 3-16 in., \$7; ¼ in., \$6; 5-16 in., \$3.50; ¾ in., \$3.15; 7-16 in., \$2.95; ½ in., \$2.80; ⅝ in., \$2.70; ¾ in., \$2.60.

SHEET ZINC—There has been no further change, our quotations still being 8c. for casks and 8¼c. for part casks.

ZINC SPELTER—Although there is not much being done either at home or abroad, the markets remain steady. We quote: 7 to 7¼c. per 100 lb.

SOLDER—Business is fair. We quote 16¼ to 17¼c. for half-and-half; 16¼ to 16¾c. for refined, and 15¼ to 16¾c. for wiping.

ANTIMONY—The cables are a little easier, but there is no change locally. Our quotations are still 11 to 11½c. for Cookson's.

PAINTS AND OILS.

The amount of business done during February this year shows a great improvement over former years. The indications are, too, that March will show an even greater improvement. The feeling in regard to the prices of all staples is firm. The stock of turpentine on the local market is getting thinned out. This may cause an advance of a point or two. English advices show that white and red leads, zinc and all kindred commodities are steady, with no indications of a drop in the near future. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 51c.; boiled, 1 to 4 barrels, 54c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 68c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

Stock trade continues fair. The import business, contrary to expectations, did not close with the end of February, several tardy buyers sending their specifications in during the last few days. The price of glass in stock here is steady, but a meeting of the large houses has been called to meet this (Friday) afternoon, when the scale of prices will likely be readjusted. We quote as follows: Star; first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

There is a brisk demand for all scrap metals but iron. An advance of 2c. is noted for all scrap coppers and brasses. Scrap lead and zinc are ¼ to ¾c. higher. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 40c. 100 lb.; new light scrap copper, 10c. per per lb.; bottoms, 10c.; heavy copper, 12c.; light scrap brass, 6c.; heavy yellow scrap brass, 8c.; heavy red scrap brass, 9c.; scrap lead, 2½c.; zinc, 2½c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

There is a liberal offering of samples, but holders seem reluctant to sell at present prices. There is no change in prices. Red clover is quoted at \$3 to \$3.50, and alsike at \$2.50 to \$4, at outside points. Slightly more than this would be paid for extra fancy lots. The price of timothy is 10 to 25c. higher. Very little Canadian is offering. For what is coming in, \$1.75 to \$2 is paid for bright, unhulled lots, and \$1.10 to \$1.35 for machine-threshed.

HIDES, SKINS AND WOOL

HIDES—The market continues weak. Green hides are unchanged. We quote cow

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of
America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

FILES

BRITISH PLATE GLASS COMPANY, Limited.

Manufacturers of **POLISHED PLATE, SILVERED PLATE, CHEQUERED PLATE, AND ROUGH PLATES AND BRILLIANT CUTTERS.** Estimates and d

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street
12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic A
68 St. Helens.

hides as follows: No. 1, 8½c.; No. 2, 7½c.; No. 3, 6½c.; Steer hides are worth ½c. more. Cured hides have declined ¼c., now being quoted at 9c.

SKINS—We quote calfskins nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins and lambskins are steady at 90c. to \$1.

WOOL—No change is noted. Fleeces are unsteady at 15c., and unwashed easy at 14c.

COAL.

Prices are unchanged. Small sizes are still very scarce. We quote as follows: at Buffalo and bridges as follows: nut and stove, \$4.50 per gross; grate, \$4.01 per net ton; grate, \$4.25 per net ton or \$3.79 per net ton.

PETROLEUM.

Business is active. Prices are steady. We quote in barrels at Toronto: No. 1, 13½c.; Sarnia prime white, 14c.; water white, 15c.; photogem, 15½c.; American water white, 16½c.; Pratt's, 18c.

MARKET NOTES.

Bar iron is 5c. per 100 lb. dearer. The laid down cost of Canada iron has increased 17c. per 100 lb.

The price of ordinary grades of iron has been advanced 10c. per 100 lb.

Scrap copper and brasses have advanced 2c. per lb. Lead and zinc are ¼c. dearer.

Wire nails have been advanced to \$2.35 ea. in Toronto and the west, and to \$2.35 ea. in Toronto.

Barbed wire has been advanced to \$2.25 per 100 lb. Staples are also quoted 25c. per 100 lb. higher.

Smooth steel wire is 25c. per 100 lb. dearer, the base price now being \$2.30 per 100 lb., factory point.

The executive committee of the Hardware Jobbers' Association was in session in Toronto on Thursday and Friday.

The manufacturers in the United States have advanced the price of galvanized iron 25c. per 100 lb., and black sheets 10c. per 100 lb.

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TOBA MARKETS.

WINNIPEG, Feb. 28, 1899.

Prices not changed materially
 week. Prices as quoted
 due, with the exception
 as advanced 2c. per
 at 57c. and 60c.
 good, and all hands

ring Co. have
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Rope, sisal, 7-16 and larger.....	10 00
" " 3/4 and 5-16	10 50
Manilla, 7-16 and larger	11 00
" " 3/4 and 5-16	11 50
Solder	12 00
Cotton, all sizes, lb.	18
Axes, per box	15
Screws, flat head, iron	\$5.50 to 8 00
Round "	75 p.c.
Flat " brass	77 1/2 p.c.
Round "	70 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	28c.
Spades and shovels	40 p.c.
Harvest tools	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz. ..	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	57
" boiled	60
Ammunition, cartridges, Dominion R.F. 50	p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
ed shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M.	16 00
American, M.	16 25
Ordinary, per 100 lbs	6 25
Chilled	6 75
F.F., keg	4 75
F.G.	5 00
bin Hood	10 00
pressed	70 and 30 p.c.
are, according to quality. 50 to 60	p.c.

sidered that such prices have been secured on a comparatively small tonnage and that mills and furnaces are shipping and will continue for some time to ship product sold far below this basis ; but this is the market to-day and every such advance will do its part in establishing the figures on which the business of the second half of the year is done. Details of consolidation movements have been actively worked upon in the week. It is announced that the National Steel Co.'s \$50,000,000 capital will be \$22,000,000 preferred and \$28,000,000 common, and allotments of underwriting are being made, subscriptions being double the capital.

An important development in connection with the plans for ore supply which the large interests are pushing is a deal for the purchase of the Lake Superior Iron Co., the old Marquette range company, which has taken out more ore in the past 40 years than any other Lake Superior interest, and has large and well developed reserves. Another deal closed is the purchase by the Cleveland Rolling Mill Co., for the wire combine, of Emma Furnace, of Cleveland, adding 100,000 tons a year to the American Steel & Wire Co.'s pig iron supply. The week has brought additional evidence that in most finished products the demand that will come with the opening of the active season will find the mills quite incapable of furnishing material as it is wanted. Rail mills are full to September ; plate mills to July 1 ; and some bar mills are booked close to the middle of the year. Pipe and sheet mills have reached a condition of congestion that ordinarily does not appear until two or three months later. The week's advance in bars is \$1, in sheets \$1 to \$2.—Iron Trade Review, February 23.

OF EXCITEMENT IN IRON.

arket week just closing has been ensation and excitement. It has re plainly than any other that the ward movement in the iron trade re all the phases and proportions . A jump of nearly \$2 a ton in ts, caused by sales of 7,000 tons at and Bessemer pig iron going to y furnace at a single bound, on o,000 tons to the Carnegie Steel ted, are startling evidences of the es of the situation. It is to be con-

Gunn's Patent "Brassic" Goods

Made by an entirely new process.
 Cheaper and better than old style.
 Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220 1/2 Board of Trade, MONTREAL.



IMPROVED
 Labor-Saving
**CARPENTERS'
 TOOLS.**

STANLEY
 RULE & LEVEL CO.
 New Britain, Conn.

SOLD BY ALL
 Hardware Dealers

Stanley's Adjustable Circular Plane.



This Plane has a Flexible Steel Face, which can be easily shaped to any required arc, either concave or convex, by turning the Knob on the front of the Plane.

No. 113. Adjustable Circular Plane, 1 1/2 in. Cutter, \$4.00

3 00
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 3 25
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 5 p.c.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Have you **"True Brand"** in Stock?

If your Jobber does not keep it write us direct and we will send you Samples.

The **"True Brand"** is the best line of Cutlery on the market.

Our Trade Mark on every piece guarantees the quality.



THIS IS OUR LATEST STAND WITH BALL BEARINGS.

W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.

THE

LEADER CHURN.

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.

Made Exclusively by _____

**THE DOWSWELL
MANUFACTURING CO.,**
Limited

HAMILTON, CANADA

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

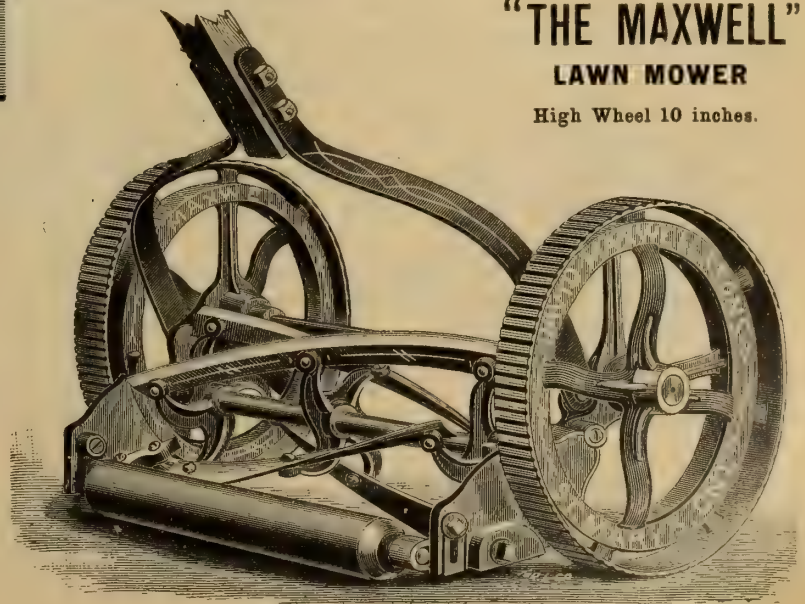
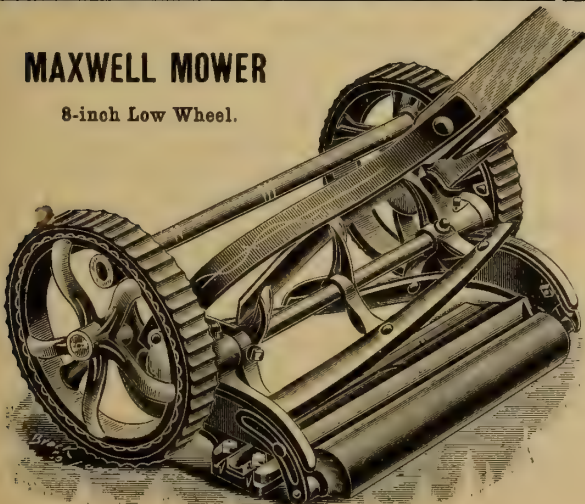
SEND DIRECT TO US.

"THE MAXWELL"**LAWN MOWER**

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

Francois Savard, saddler, St. Tite, Que., has assigned.

M. S. Taylor & Co., general merchants, Mansonville, Que., have assigned.

E. Crete, general merchant, Grand Piles, Que., is offering 25c. on the dollar.

Robert W. Bagley, tinsmith, Smith's Falls, Ont., has assigned to O. Carss.

J. A. Poulin, general merchant, St. George, East, Que., is offering 25c. on the dollar.

Telesphore Roux, general merchant, Plessisville, Que., is offering 40c. on the dollar.

Isaac G. Hutchinson, general merchant, Brighton, N. S., is offering 25c. on the dollar.

Hughes & Crawford, merchants, Niagara, B. C., have assigned to Chas. F. Gallion.

Peter McMurray, stove and tinware dealer, Welland, Ont., has assigned to J. E. Cohoe.

P. F. James, general merchant, Spaniard's Bay, Nfld., has applied for declaration of insolvency.

J. H. Brodeur, general merchant, Varennes, Que., has compromised at 25c. on the dollar, cash.

J. A. Woodward, general merchant, St. Williams, Ont., has assigned to C. B. Armstrong, London.

The creditors of J. M. Ruiter, sawmiller, Brome Corner, Que., have been notified to file their claims.

Arthur Ellison, sawmiller, Port Stanley, Ont., has assigned to A. J. Clark, St. Thomas, and a meeting of his creditors will be held on the 7th inst.

PARTNERSHIPS FORMED AND DISSOLVED.

Villette & Co., general merchants, South Durham, Que., have dissolved.

The Nelson Hardware Co., hardware dealers, Nelson, B. C., have dissolved partnership.

M. Desrosiers, stoves and tinware dealer, Vancouver, B. C., contemplates admitting Mitchell Desrosiers.

James Hutton & Co., wholesale hardware dealers, Montreal, have registered dissolution of partnership.

Joseph A. Decelles and Joseph H. Cordreau, have registered partnership as general merchants in Farnham, Que.

Hopkins & Pack, general merchants, Hartney, Man., have dissolved, E. W. Pack purchasing the interest of W. Hopkins.

Simon Phaneuf and Louis A. Bourdon have registered as partners under the style of Phaneuf & Bourdon, general merchants, Farnham, Que.

R. E. Nelson and Ira Drysdale have

registered co-partnership under the style of R. E. Nelson & Co., general merchants, Wallace, N. S.

SALES MADE AND PENDING.

The assets of Valiquette & Larivee, general merchants, St. Adele, Que., are to be sold on the 8th inst.

The stock of J. & W. Johnston, general merchants, Orangeville, Ont., is advertised for sale on the 8th inst.

The stock of R. J. Stewart, general merchant, Souris, Man., has been sold to Burley Crawford at 62½c. on the dollar.

The stock of Hallonquist & Co., general merchants, Napinka, Man., has been sold to A. B. Graham, Rat Portage, Ont., at 45c. on the dollar, cash.

CHANGES.

The Diamond Harrow Co. of Windsor, Limited, has been incorporated.

The Trent Valley Peat Fuel Co., Limited, Peterboro', Ont., has been incorporated.

W. H. Otto, general merchant, Sebringville, Ont., has been succeeded by Solder Bros.

R. C. Robertson, blacksmith, Pilot Mound, Man., is advertising his intention of retiring.

W. W. Melburn, general merchant, Moira, Ont., has been succeeded by Willis Hugdins.

Gaine & Roy, general merchants, Fernie and Cascade City, B. C., are discontinuing at Fernie.

G. I. Letteney & Bro., general merchants, Digby, N. S., have been succeeded by F. M. Letteney & Co.

Gould & Elliot, general merchants, Pierston, Man., have sold out their coal and wood business to E. Campbell.

Alona Langlois, daughter of Octave Langlois, has registered as proprietress of O. Langlois & Co., general merchants, Que.

The Hunter, Kendrick Co., general merchants, Grand Forks, B. C., are seeking incorporation, and are opening a branch at Greenwood, B. C.

The name of The Noxon Bros. Mfg. Co., Limited, manufacturers agricultural implements, Ingersoll, Ont., has been changed to the Noxon Co., Limited.

FIRES.

The Hamilton Brass Mfg. Co., has suffered damage by fire.

J. J. Quinlivan, blacksmith, Fort Steele, B. C., has suffered loss by fire.

The Toronto Steel Clad Bath and Metal Co., Limited, have suffered slight damage by fire.

It is reported that Grant McAlpin, hardware dealer, Wardner, B. C., has been burned out.

Henry Pitman, dealer in agricultural implements, and A. Thompson, harness

dealer, Port Rowan, Ont., have been burned out.

Sampson, McCuaig & Co., wholesale tea merchants, Toronto, have suffered slight damage by fire.

The Cranbrook Lumber Co., sawmillers, Cranbrook, B. C., have suffered a \$6,000 loss by fire; no insurance.

DEATHS.

Wm. H. McDonald, of Dunlop Bros. & Co., general merchants, Amherst, N. S., is dead.

Louis A. Congdon, of Congdon & Marshall, hardware dealers, Dunnville, Ont., is dead.

ADVANCE IN BEDSTEAD TUBES.

As was to be expected, says an English exchange, the great advance in the price of copper has been followed with a corresponding advance in the price of brazed brass tubes, cased tubes, and bedstead mounts. On January 10, the Bedstead and Fender Mounts Association declared an advance of 2½ per cent. on the schedule price, making a total of 12½ per cent.; on the 19th, a further increase of 5 per cent. was made to 17½ per cent.; on the 26th an additional 2½ per cent. was announced; and on February 3rd, another 5 per cent. was added, raising the total to 25 per cent. above the list. Brazed brass tubes were advanced ¼d. per lb. on the 18th January, making the basis price 8¾d., with the usual 1d. extra for square tubes; on the 24th, prices for brazed tubes were raised ½d. to 9¼d.; and on February 2nd, a further ½d. to 9¾d. In cased tubes the discount was reduced 2½ per cent. on the 5th instant, making the present discount 55 per cent. off the list. On the 17th January, an advance of 10s. a ton was declared on all close-joint iron and steel tubes and also welded tubes.

RAILROAD CONSTRUCTION IN 1899.

The Railroad Gazette contains a list of railroad projects at present proposed or under construction in the United States, Canada and Mexico. The list includes 448 companies, and 480 lines and extensions in the United States, 68 companies and 86 lines and extensions in Canada, and 28 companies with 29 lines and extensions in Mexico, a total of 544 companies and 595 projected lines and extensions. The list has been prepared with the object of indicating only the projects that are likely to take some shape in the near future. The amount of proposed new construction indicates that railroad building, which, for a number of years has been neglected, is being revived. Nearly every State in the Union contributes to the proposed work, but the greatest activity is shown in the Southern States, the north Mississippi States, and the extreme Northwest.

COMMERCIAL POLICY BETTER THAN WAR POLICY.

A New York paper of a recent date contains the following paragraph: "When we stop to consider that we paid only \$15,000,000 for the peaceful acquisition of the Louisiana territory, out of which we have made twelve great States—Minnesota, Iowa, North Dakota, South Dakota, Kansas, Nebraska, Missouri, Arkansas, Louisiana, Wyoming, Colorado and Montana—the sum offered for the Philippines looks amazingly large. There is every likelihood that it will cost us at least \$20,000,000 annually for the next fifty years to "civilize" the half-savage inhabitants. The policy of imperialism will cost us an enormous outlay of treasure and blood, and it will not gain anything for us that a liberal tariff and commercial policy would not secure for the country without a cent of expense."

CANADIAN ADVERTISING is best done by THE
E. DESBARATS ADVERTISING AGENCY,
MONTREAL.

SITUATION WANTED

WANTED—SITUATION BY YOUNG MAN
(20), with 4 years' experience in Hardware
Store in lumbering district. Box B., HARDWARE
AND METAL. (10)

SITUATIONS VACANT.

WANTED—BOOKKEEPER WHO UNDER-
stands Hardware and will assist in store.
Must be total abstainer, with good references.
Apply, stating salary, Box 450, Regina, Assa. (10)

PLUMBER AND TINSMITH WANTED—
Must understand plumbing thoroughly. Must
be sober. Single man preferred. Apply to J. &
T. M. Piper, Fort William, Ont. (10)

The

DETECTIVE AND CONFIDENTIAL AGENCY.

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies,
Fires, Embezzlements; Lost Friends Located; Legal and
Private Reports; Movements of Employes or Friends.

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General Patent Agents in procuring Home and Foreign
Patents and all matters pertaining to Patents and Patent
Causes, also the buying and selling of Patents, and the
Organizing and promoting of Joint Stock Companies. List
of 500 inventions wanted and list of Canadian Patented
inventions for sale, mailed to any address free, address

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CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Busi-
ness Correspondence and Proofreading. Pitman's or
Munson's Shorthand, per month, \$4.00, White's Phonog-
raphy, per month, \$8.00; Telegraphy, per month, \$8.00;
Bookkeeping and Business Practice, per course, \$35.00;
Bookkeeping and Business Practice, per month, \$5.00;
Penmanship, per month, \$3.00; Night School, per month,
\$3.00; Private Lessons, each, \$1.00. Address, A. M.
GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

INTERCOLONIAL RAILWAY.

TENDERS FOR GRAIN ELEVATOR AND WAREHOUSE.

Separate Sealed Tenders, addressed to the undersigned,
and marked on the outside "Tender for Grain Elevator,"
or "Tender for Warehouse," as the case may be will be
received at this office until 5 o'clock p.m., eastern standard
time, on SATURDAY, MARCH 25th, 1899, for the erec-
tion of a Grain Elevator at St. John, New Brunswick, and
for the erection of a Freight Warehouse on the new
Terminal Wharf now under contract at that place.

Plans and Specifications may be seen and Forms of
Tender may be obtained on and after the 28th day of
February, 1899, at the Office of the Chief Engineer of the
Intercolonial Railway, at Moncton, N.B., and at the
Engineer's Office, St. John, N.B.

In the case of Firm-, the Tender must bear the actual
signature of the full name, the occupation and residence
of each member of the firm.

All the Conditions of the Specifications, including those
requiring a security deposit with each Tender, must be
complied with.

Tenders must be made on the Printed Form supplied.

The Department does not bind itself to accept the lowest
or any Tender.

D. POTTINGER,

Railway Office,
Moncton, N.B., Feb. 27th, 1899.

General Manager.
(11)



FOR

Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps

Everything in the stamp line.

SEND TO THE

Hamilton Stamp & Stencil
DATER. 25c. Works, Hamilton, Ont.

All Spraying, Disinfecting, and Whitewashing
can be done with THE SPRAMOTOR.



It is the result of most
careful and exhaustive ex-
periment. Each feature was
thoroughly tested before be-
ing placed on the market.

Toronto, Nov. 9, 1898.

Spramotor Company,
London, Ont.

Gentlemen,—The machines
for spraying and whitewash-
ing you have supplied to
Dentonia Park Farm have
done their work well, and
are quite satisfactory. I
could not have believed
there was so much value in
spraying fruit trees. We had
a good crop of apples,
whereas our neighbors, who
used no spraying apparatus,

had practically none. Yours truly,

W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus,
held at Grimsby, on April 2nd and 3rd 1896, under the
auspices of the Board of Control of the Fruit Experimental
Stations of Ontario, in which there were even contestants,
the SPRAMOTOR made by the Spramotor Co., of London,
Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we
will send you a 72-page copyrighted catalogue and treatise
on the diseases affecting fruit trees, vegetables, etc., and
their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.

Mention this paper.

We are Manufacturers of Sterling Silver and Electro Silver Plate.



No. 672—Tea.

One of our specialties is silverware
suitable for Hotel, Club and Steam-
boat purposes.



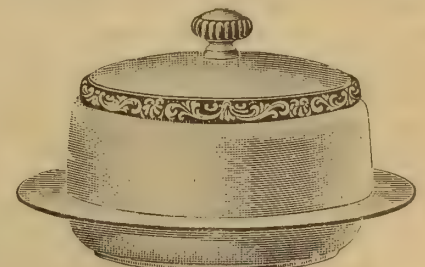
No. 672—Sugar.

We are not members of the Silver-
ware Trust or of any Silverware
Association or Combine, and allow no
outside interest to dictate our business
policy.



No. 672—Cream.

In buying silverware from your jobber,
insist on it being stamped with our name
or Trade Marks.



No. 173—Butter.

The Toronto Silver Plate Co.

Limited

Factories and Salesrooms:

King St. West, Toronto, Canada

E. G. GOODERHAM, Managing Director.

WELDED CHAINS.

AT a meeting of the Manchester Association of Engineers, held recently in Manchester, Mr. E. J. Taylor, of Stourbridge, read a paper on "Welded Chains," in which he dealt chiefly with that part of the chain trade which includes more particularly the making and testing of the higher classes of welded chains, such as are used by the great body of engineers throughout the country for cranes and slinging purposes.

After describing the various processes in the manufacture of chains and the qualities to be looked for in the material used, the author gave some interesting information as to the methods of testing the work after completion. In few trades, if any, he remarked, was so much testing done in the proportion to the work made, as in a well-regulated chain works. With regard to the proof strain of chains the Admiralty standard was that a strain of 420 lb. per circular $\frac{1}{8}$ -in. area of the bar used in making the chain was a good and sufficient tensile test for the whole of a short-linked chain to pass. This was equal to 7.64 tons per square inch of section of both sides of the link and a fair weight to put on any part, and could not be increased very much without injury to the elasticity of the chain.

As to the ultimate strength or breaking weight of short-linked chains, the minimum fixed by Act of Parliament was double the test load, or 15.28 tons per square inch, so that an inch chain, which would be tested to 12 tons, should stand without fracture in three links 24 tons. In testing, the author would advise every one to insist upon a yard of chain being broken instead of three links, as it would enable them to better estimate the real strength of the greater portion of the chain made by the workman.

A great deal of uncertainty existed as to welded steel chains, and, from his own knowledge, taking them all round, they were not so reliable as those made from cast iron. He was quite prepared to admit that very good tests and good results had been obtained with them, but, over against these, must be set some very poor results, indeed. The steel, as a rule, did not run so regularly in its weldable properties as iron. Some of the very best weldable steel made, at the present moment, was, perhaps, the cheapest in the market, but he felt certain, from a number of tests made, that a steel chain, if broken in a long length, would be found no stronger than, if as strong as, an iron one of the same size. With regard to galvanizing, this was generally supposed to have a depreciating effect upon the quality of chains, but, so far as he could ascertain by actual test, it did not

appear, in high-class chains, to affect the quality to even the smallest extent.

A matter for serious consideration was the safe working load of chains. This did not, in his opinion, depend on the size of the chain, but upon what was the lowest breaking weight obtainable from actual tests. If they got a fair average strength in a chain, say from 16 to 17 tons per square inch of section, 3 tons per square inch would be a safe working load for all practical purposes; if another ton or so was obtained, $3\frac{1}{2}$ tons, perhaps, might be sufficiently near the safe load. Chains should be occasionally taken from their work and carefully annealed. This slightly increased their strength to resist a gradually applied load in testing machines, and, if serious over-weighting had occurred, and crystallization had taken place, the annealing process would, if the material was good at first, restore the fibres of the iron to their natural position, and make the chain far more capable of resisting any vibration or shock to which it was almost certain to be exposed.

The length of time chains should be in use without annealing depended, of course, largely upon the work performed. A good chain did not always break when lifting a load beyond its safe working strength, but would often part with a very small load soon afterwards. A chain in this state should certainly be annealed. Specifications for crane chains had lately come very much to the front. One specification very much favored by engineers, and also adopted by seven or eight English railway companies, required, amongst other details, for a 1-in. diameter close link crane chain a proof strain of 12 tons; minimum breaking weight 28 tons; elongation on 36-in., $6\frac{3}{4}$ -in.; weight per fathom 66 lb. The author also gave several other specifications for crane chains, observing that the best was that issued by Sir A. M. Rendel in 1887. This required for a 1-in. diameter chain, a proof strain of 12 tons; load on test piece 29 tons; elongation of test piece in 36-in. after proof, 8 7-16 in., and average weight per fathom 62 lb.

CREDIT WAS STRONGER.

"I suppose," said the hardwareman, that business is better, even in a small country town like this, than it was a few years ago, during the hard times?"

"Well, no; can't say it is," replied the Houndtown merchant. "In the hard times the people hadn't money to speak of, and consequently, didn't buy anything; but when times loosened up a little, why, you know, credit got better, and then they bought all they wanted, but insisted on getting it on time."

West ^{of the} Rockies

The Canada Paint Company's manufactures can be obtained from their factory at Victoria, B.C., or through the leading wholesale firms.

East ^{of the} Rockies

Varnish and Colors manufactured by the Canada Paint Company (Limited) are for sale by all the progressive hardware men and the jobbers in Winnipeg.

West North Ontario

For prompt shipment, address the Toronto branch of The Canada Paint Company (Limited) Toronto.

East Ontario and Quebec

The largest and best equipped stock in Canada, with quick deliveries from the MONTREAL factory — Headquarters!

Maritime Provinces

The wholesale trade and the large distributors all handle the ready-selling manufactures of this Company.

THE...

**CANADA
PAINT
COMPANY**

(LIMITED)

UNIVERSAL
VARNISH
COLOR and
PAINT
PROVIDERS.

Lockerby & McComb

Manufacturers of

DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING

GOOD LUCK FIBRE

2 and 3 PLY READ ROOFING

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL



"BUILD TO-DAY THEN,
STRONG AND SURE
WITH A FIRM AND
AMPLE BASE."
— Longfellow.

DO YOU?

WISH THUS TO BUILD
an
advertisement
in the
CONTRACT-
RECORD.

TORONTO
will bring you
tenders from the
best contractors

WESTERN

Incorporated
1851.

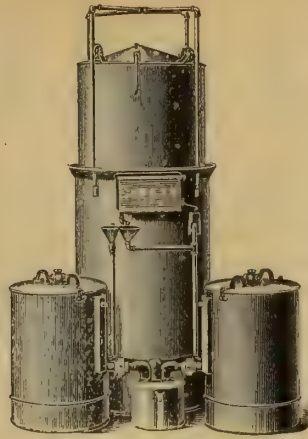
ASSURANCE COMPANY

Fire and Marine

Capital, subscribed \$2,000,000.00
Capital - - - 1,000,000.00
Assets, over - - 2,320,000.00
Annual Income - 2,300,000.00

Head Office: TORONTO, ONT.

Hon. Geo. A. Cox, President. J. J. Kenny, Vice-President.
C. C. Foster, Secretary.



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS.

Send for Booklet.

Help a Painter

all you can and gain his trade and influence—they are worth having, you'll agree to that. One quick, safe, easy, sure way to accomplish this is to show him how he can save time, and time is money.

Boeckhs' Patent Bridled Brush saves time for painters—the smartest painter that ever lived can be smarter yet with the Bridled Brush, and withal do better work.

Reasons why: The flexible liquid-proof bridle can be taken off and replaced quick as a wink, to clean the brush or cut the bridle down. No twine or wire to unwind and rewind. No hard knot in the centre of the bristles—each separate bristle has its full flexible power. Send for illustrated book telling all about it—the book is free.

Boeckhs' Bridled Brush.

Boeckh Bros. & Company
Toronto, Ont.

Montreal Branch,
1 and 3 DeBresoles St.

Agencies at Winnipeg,
Vancouver, St. John's, Nfld.
Glasgow, Scot.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, 1½ to 2¾ inches. Price \$1.25 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, - Saint John, N. B., Canada.

HEATING AND PLUMBING

PRICES CUT DOWN FINE.

FOR some time it has been an admitted fact in Toronto that the smaller plumbing shops need expect little revenue from contract work, for the larger shops, which were able to purchase materials at the lowest figure, had cut prices down to a point which made it impossible for the large majority to get any work of this kind.

Jobbing has been, and is, therefore, the mainstay of the smaller houses. Competition for this class of work has been steadily becoming keener, and, of late, complaints were rife that firms in many parts of the city were doing small jobs at prices much below the recognized standard.

This basis of price, 40c. per hour for one journeyman plumber's time, was fixed some years ago as The Toronto Master Plumbers' Association's standard. The complaints of cutting culminated within the last two weeks, when one firm, the members of which were at one time leaders in associational quarters, commenced advertising their willingness to do jobbing work at 25c. per hour. They, furthermore, expressed willingness to repair taps on sinks in any part of Toronto at 5c. each, and to install boilers for \$7.

Though it is unfortunate that prices have been cut below the regular figure, which was but fair and reasonable, it is unquestionably more honorable to cut straight and open than to do it on the quiet.

PROGRESS OF THE PLUMBING SUPPLY COMBINATION.

The projected combination of manufacturers and dealers in plumbing supplies is reported as making good headway, and it is expected that the deal will be put through by the middle of March. The appraisers having in charge the valuation of the plants, real estate, etc., and the extent of the business done by the various firms proposed to be included in the combine, are engaged on the work, and their report will be submitted to The Audit Company of New York, who have the preliminaries in charge. President Alexander Euston, of The American Shot and Lead Company, of St. Louis, who has charge of the consolidation plans, has been in Chicago conferring with a number of western plumbing supply dealers and manufacturers, and is understood to have made final arrangements with over 80 per cent. of those invited to join the concern. He returned to New York this week, and is now

engaged on the financial end of the negotiations here. Mr. Euston states that the financial plan has not yet been finally decided upon, nor has the capitalization of The Plumbing General Supply and Lead Company been fixed, although it will probably be about \$35,000,000 or \$40,000,000. The combination will represent about 25 per cent. of the total output of the plumbing supply manufacturers and 40 per cent. of the jobbers in this line in the United States.—Metal Worker.

PLUMBING AND HEATING NOTES.

Paul V. Parent, plumber, etc., Montreal, has assigned.

The stock of John Borton, plumber, Halifax, has been sold under bill of sale.

Wm. Armstrong, sole proprietor of Worthington, Garrett & Armstrong, Toronto, has compromised at 25c. on the dollar.

Mr. A. G. Booth, manager of The Toronto Steel-Clad Bath Co. Limited, is confined to his house by an attack of scarlet fever.

Joseph Raymond and Theodule Bergeron have registered as partners under the style of Raymond & Bergeron, plumbers, Montreal.

Building permits have been issued in Toronto to J. F. Brown & Co., for a two-storey warehouse at 5, 7 and 9 Queen street east, to cost \$3,500, and to John McDonald, for a two-storey and attic dwelling at 15 Oak street, to cost \$1,000. The total permits issued in February amount to \$32,270, as compared with \$78,510 in February last year.

John Wright, of The Bennett & Wright Co., Limited, Toronto, was fined on Wednesday for failing to comply with certain provisions of the plumbing by-law, in refer-

ence to some work done in a building at the corner of Queen and Sherbourne streets. No vent had been left for the trap of the sink. Mr. Wright's defence was that the work was not finished.

Complaints are again being made about the Toronto sanitary by-law. Wm. Archibald, 258 St. Patrick street, has pointed out to the Toronto Board of Health the unfairness of the clause which states that not more than two houses can be connected with a 6-inch drain, no matter what their size may be. Thus, two houses with 50 rooms can connect with such a drain, while three houses with, perhaps, a dozen rooms, are debarred from so doing.

TORONTO MASTER PLUMBERS ELECT OFFICERS.

The annual meeting of the Toronto Master Plumbers' Association was held on Monday evening in the association's rooms in the Pythian hall, Queen street east.

Officers for the ensuing year elected as follows:

President, James Wilson, of The John Ritchie Plumbing and Heating Co., Limited.
Vice-president, A. S. Bates, of Bates & Robinson.
Secretary, W. G. Ritchie.
Treasurer, Alex. Fiddes, of Fiddes & Hogarth.

It was decided to hold a banquet in the near future, but no definite date was chosen. This will be given later.

PLUMBING AND HEATING CONTRACTS.

Purdy, Mansell & Co., Toronto, have contracts for plumbing in a warehouse, on Bay street, for Geo. H. Hees & Co.; plumbing and heating a residence for James Fox, on Markham street, and for hot-water fitting in the offices of The Metallic Roofing Co., King street west, Toronto.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

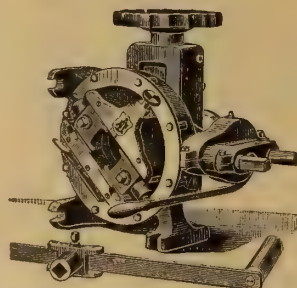
Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

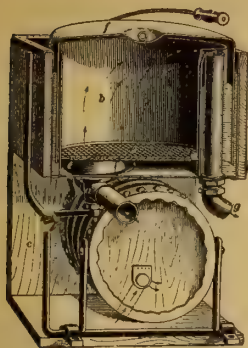
THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.



New No. 0 Threading Machine.



PLUMBERS!

protect yourselves by testing your work with the simplest and most reliable Smoke Test.

Send for Circular

The
**JAMES MORRISON
BRASS MFG. CO.
Limited**

Toronto.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.



THE "DAISY" SANITARY EARTH CLOSET.

Made entirely of
Metal, and Ventilated
Newest and Best.

Designed for dwellings
and places where water
closets cannot be used.
Does not gather odors
nor become unsanitary as
wood closets do.

Manufactured by
**THE TORONTO FURNACE
AND CREMATORY
CO., Limited.**

14 and 16 Queen St.
East, Toronto.

Write for circulars and
prices. Headquarters for
Builders' Castings, Sash
Weights, etc.



The

CARPENTER GRASS HOOK.

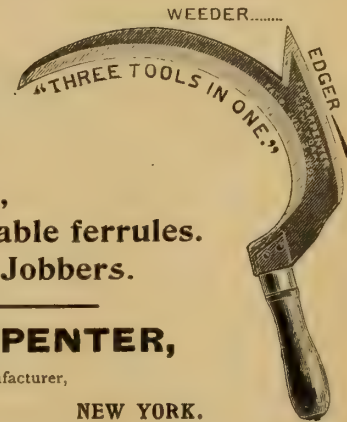
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



THE .. DOMINION RADIATOR COMPANY

LIMITED

Dealers

in the most complete line of

Steamfitters' Specialties

HEAD OFFICE and WORKS:

340 to 376 Dufferin Street

TORONTO, ONT.



Safford Steam ^{and} Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
Cast and Malleable Fittings
Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS, SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

HOT-WATER HEATING WITH OPEN FIRE.

A CORRESPONDENT of Metal Worker writes: "Will you kindly give me some suggestions in regard to heating two rooms by radiators connected to a water back in an open fireplace in which wood is used? One room is on same floor as grate and one directly above. What style of water back or coil is best?"

The reply is as follows: "This problem presents many interesting conditions and we shall be glad to have it freely discussed. In the meantime we reprint the following from The Metal Worker, April 14, 1894, contributed by a correspondent, with a sketch which shows an open fire and a radiator on the first floor and a radiator and an expansion tank on the floor above. He states: The water heater is made of 2-in. pipe and fittings for the horizontal portions and seven 1-in. down pipes connecting them. The 2-in. pipe runs through the chimney at one side and is reduced to 1 1/4-in. pipe for the radiator connections. The return pipes connect with the lower 2-in. pipe of the heater. The heater stands upright at the back of the fireplace and an 18-in. grate is set in the usual place. The expansion tank connects with the radiator on the upper floor. The system holds 35 gallons of water and evaporates one quart in a month. A cock for emptying it is placed in the cellar."

A PRELATE AS PLUMBER.

His Grace the Archbishop of York has been varying his "pastoral" pursuits by doing a little in the plumbing line lately. Having arranged to place in position and bless the chancel cross on the gable end of the new parish church of Bishopthorpe, Dr. MacLagan, the choir and the clergy ascended by a temporary staircase to a small platform near the apex of the chancel roof, where the archbishop performed the practical part of the ceremony by pouring molten metal from a ladle into the socket. After this, The Plumbers' Company ought certainly to send one of their first-class certificates to His Grace of York, and thus enlist him on their side when the registration bill gets into the Lords—if he should have the good fortune to live till then.—"Vulcan," in Ironmonger.

CREDIT—A GOOD SERVANT.

It is a pleasant thing to give credit to a deserving person whom one is certain will meet the obligation if he is able, says Mer-

chants' Review. It is also pleasant to be given credit when one is short of ready cash and needs the accommodation. Thus credit in itself may be declared a good thing, yet nevertheless there are many people who hate the very sound of the word. They have been induced at some time both to give and to accept too much of the good thing, and their experiences have been such that they will never forget them.

Truly one of the best friends of the retailer is the stern, systematic and impassive credit clerk who refuses to exceed certain limits in the granting of credit, for the easy-going credit man lures the retailer into accepting too long credit and also into giving it.

No doubt the wholesalers are responsible for many of the losses due to the credit system, simply through the bad example they set their customers. The latter, finding that they can get plenty of time themselves, are too ready to give it to others, and soon march on to their ruin.

DECREASE IN IRON PRODUCTION.

THE IRON AGE in its monthly review of the pig iron production says: "Contrary to expectations the month of February starts with a lower output of pig iron than did January. Quite a number of furnaces have been forced to blow out or bank for repairs, while only a few smaller stacks have started during the month. Until now only a small number of plants have started which have long been idle, but quite a number are making preparations. Still, the swelling of the product from the present high plane will be slower than is generally believed.

"The weekly capacity of the furnaces in blast on February 1, compares as follows with that of preceding periods:

	Furnaces in Blast.	Capacity Per Week. Gross tons.
February 1, 1899	195	237,639
January 1	200	243,516
December 1, 1898	195	235,528
November 1	196	228,935
October 1	192	215,635
September 1	186	213,143
August 1	187	206,777
July 1	185	216,311
June 1	190	225,398
May 1	194	234,163
April 1	194	233,339
March 1	193	234,430
February 1, 1898	184	228,338
January 1	188	226,608
December 1, 1897	191	226,024
November 1	183	213,159
October 1	171	200,128
September 1	161	185,506
August 1	152	165,378
July 1	145	164,064
June 1	146	168,380
May 1	146	170,528
April 1	153	173,270
March 1	156	169,986
February 1	154	162,959
January 1	154	159,720

"The position of furnace stocks, sold and unsold, as reported to us, was as follows on February 1, the same furnaces being represented as in former months (this does not include the holdings of the steel works producing their own iron):

Stocks—	Sept. 1	Dec. 1.	Jan. 1.	Feb. 1.
Anthracite & coke	571,097	441,971	402,260	365,311
Charcoal	117,285	107,353	104,315	97,593
Totals	688,382	544,024	506,575	492,903

ONE BICYCLE MAKER'S OPINION.

IT was only the other day that the writer was talking with a prominent manufacturer of bicycles about the hardwareman as a successful bicycle dealer. That manufacturer was most enthusiastic in his praises of the hardwareman and said that he wished that all of his dealers were in the same line. "I am convinced," said he, "that the bicycle trade is drifting in that direction, and that the sooner all of us get into the band wagon the better it will be for us. It is a legitimate business proposition. The hardwareman is first of all a business man. He may not know much about the bicycle business to start with, but it does not take him long to get onto the ins and outs of the business, and when once educated he is worth a dozen of the other chaps who do business for three or four months a year. In the first place, we are sure of good representation when we get a hardwareman. He takes the situation seriously and looks at it in a businesslike way. He recognizes the fact that the bicycle business is not child's play and that bicycles have to be sold like any other merchandise. He orders what he thinks he can sell, no more no less, and if he sells what he has ordered and wants more wheels he can get them on short notice. When we send wheels to a hardwareman we can count on getting our money for what we send him. We don't have to spend our time and money in collecting accounts which ought to be paid without any urging. There is one thing, though, that I must say about the hardwareman and that is I think that he makes a better agent in a smaller city or town than he does in the big metropolitan cities, for the simple reason that in places the size of St. Louis or Chicago the bulk of the hardware trade is done in the departmental stores. For this reason the city man cannot do quite so well as his country cousin. But the hardwareman is gilt-edged and the real article."—Iron and Steel.

J. P. Anderson, general merchant, Elm-vale, Ont., has assigned to John McEachren.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker
22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Tinned Plates, Canada Plates Gal-
vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for ..

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

ARE YOU A BUYER of

**Hardware, Metals,
Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest
issue of **HARDWARE AND METAL**, the lead-
ing authority on these trades, will be sent to
you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
26 Front St. West, TORONTO.
199 Fleet St., E.C., LONDON, ENG.

**The Portland Rolling
Mills Co., Limited**

Manufacturers of

Refined Bar Iron
Railway Spikes
Pressed Spikes
Nails and Tacks
"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"**

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

STEVENS IDEAL, NO. 44.

STEVENS IDEAL No. 44

This is as reliable and
accurate a rifle as can be
constructed. Placed at a
moderate price to meet the
demand for such a rifle. It
is recommended without
qualification and fully guar-

anteed. Made in the following styles:

.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire
cartridges, 24 inches. Weight 7½ pounds.

.25-20 Stevens C. F., .32-40 C. F., .38-55 C. F., and .44-40 (.44 W. C. F.) Standard length of barrel
for center-fire cartridges, 26 inches. Weight, 7¾ pounds.

Half-octagon barrel, oiled walnut stock and fore-arm, rifle butt, case-hardened receiver, sporting rear
and Rocky Mountain front sight.

Price, with standard length of barrel, \$13.00.

Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.

**To Help
You.**

We are spending money liberally to adver-
tise Church's Alabastine—for YOU. The more
your customers know about it the quicker they'll want it and buy
it—of YOU. And, too, we send you a larger amount of attractive
advertising matter (some of it in colors) than you would ever expect
to get for nothing.

Don't know what Alabastine is? You WILL shortly—so will
your customers. It will pay you to be ready to supply the de-
mand—WHEN FOLKS KNOW!

The only sanitary and absolutely perma-
nent Water-Color Wall Coating known to
science. Ready for use with cold water.
Anyone can apply it. Won't rub off or scale.
Hardens with age.

**Church's
Alabastine.**

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETT

DOVERCOURT
TWINE MILLS.

1078 BLOOR STREET WEST,
TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,

Cotton and Russian Hemp Plough Lines, plain and colored.

Cotton and Linen Fish Lines, laid and braided.

Netted Hammocks, white and colored, Tennis and Fly Nets.

Skippping Ropes, Jute, Hemp and Flax Twines.

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO., - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 28
Straits	0 27½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X.	6 25
I.X.X.	7 50

J. R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	3 50
I.X.	4 25
I.X.X.	5 00
I.X.X.X.	5 75
D.C., 12½x17	3 00
D.X.	3 75
D.X.X.	5 75

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.	
Bessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base.	3 25
20x28	6 75

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 25
I.X.	7 75
I.C., Orion	6 25
I.X., Orion	7 25

Charcoal Tin Boiler Plates.	
Cookley Grade—	
X.X., 14x56, 50 sheet bxs	Per lb.
" 14x60	0 05½
" 14x65	0 06

Tinned Sheets.	
72x30 up to 24 gauge.	0 06
" 26	0 06½
" 28	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price
" from factory	1 55
Refined	1 45
Horse Shoe	2 20
Hoop steel, 1½ to 3 in. base,	1 65
extras for smaller sizes	1 70

Swedish	4 00
Sleigh Shoe Steel	4 25
Tire Steel	1 75
Machinery	1 85
Cast Steel, per lb	0 10
Thos. Firth & Sons' Cast Steel	0 14
Russian Sheet, per lb	0 12
Tank Plates, 1-5 and thicker.	0 10½
Boiler Rivets	2 00
	4 50

Boiler Tubes.

1½-inch	0 06½
2 "	0 07½
2½ "	0 09½
	0 11

Steel Boiler Plate.

3-16 inch	2 00
	1 90

¾ inch and thicker	1 75
--------------------	------

Black Sheets.

18 gauge	2 40
20 "	2 50
22 to 24 "	2 55
26 "	2 65
28 "	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 60
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	\$1.50; ½ inch, \$2.40; ¾ inch, \$2.80; 1 inch, \$3.85; 1½ inch, \$5.10; 2 inch, \$6.75; 2½ inch, \$9.10.
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Galvanized, ½ inch, \$4.45; ¾ inch, \$5.40; 1 inch, \$7.35; 1½ inch, \$10.95; 2 inch, \$17.85. Cast soil, 2, 3, 4 and 5 inch 60, 10 and 5 p. c.	
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Galvanized Iron.

16 gauge	G.C.	3 50	3 90
18 to 24 gauge		3 25	3 65
26 "		4 00	3 50
28 "		4 25	3 75
Less than cask lots, 25c. per 100 lb. additional.			

Chain.

Proof Coil, 3-16 in., per 100 lbs	7 00
" ¼ "	6 00
" 5-16 "	3 50
" ¾ "	3 15
" 7-16 "	2 95
" ½ "	2 80
" ¾ "	2 70
" 1 "	2 60

Trace, per doz. pairs	3 60
Jack chain, iron, single, per doz. yards	0 13
Jack chain, double, per doz. yards	0 15
Jack chain, brass, single, per doz. yards	20 10

Copper.

English B. S., ton lots	0 17½
Lake Superior	0 18

Bolt or Bar.

Cut lengths, round, ½ to ¾ in. round and square 1 to 2 inches	0 22
	0 24

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60	0 23
Untinned, 14 oz., and light, 16 oz., irregular sizes	0 23
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.	

Tinned copper sheets	0 26
Planished	0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25
" 35 to 45 "	0 24
" 50-lb. and above, "	0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28
Spun, per lb.	0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½ p. c. off list.	
Sheets, hard-rolled, 2x4	0 20
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 07
Domestic	0 07½

Zinc Sheet.

5 cwt. casks	0 08
Part casks	0 08½

Lead.

Imported Pig, per lb	0 04½
Domestic, per lb	0 04
Bar, 1 lb.	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05
Sheets, 3 to 6 lbs., per sq. ft., by roll.	0 04½

NOTE.—Cut sheets ½ cent per lb. extra. Pipes, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount.

NOTE.—Cut lengths, net price, waste pipe in 8-ft. lengths, lists at 7½ cents.

Shot.

Net list, no discount.

Solder.

	Per lb.	Per lb.
Bar half-and-half	0 16½	0 17½
Refined	0 15½	0 16½
Wiping	0 14½	0 15½

NOTE.—Prices of this graded according to

Antimony.

Cookson's, per lb	0 11
Other makes, per lb.	0 09

White Lead.

Other makes, per lb.....	0 09	0 09½
White Lead.		
Pure, Assoc. guarantee, ground in oil,	Per	

Robertson's Chemically Pure	6 00
Munro's Select Flake White	6 25
Elephant and Decorators' Pure	6 00
Brandram's B. B. Genuine	8 00
" No. 1	7 25
James genuine	7 20
" No. 1	6 75

White Zinc Paint.

Elephant Snow White	0 08
Pure White Zinc	0 08
No. 1	0 06
No. 2	0 05

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canadian Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 08
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
" Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt	1 35
Yellow Ochre (J.F.L.S.), bbls. per cwt	2 75
Yellow Ochre (Royal), per cwt	1 10
Brussels Ochre	2 00
Venetian Red (best), per cwt.	1 80
English Oxides, per cwt.	3 00
American Oxides, per cwt.	1 75
Canadian Oxides, per cwt.	1 75

Burnt Sienna, pure, per lb.	0 10
" Umber,	0 10
do. aw	0 09
Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½

Ultra marine Blue in 28-lb. boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1-lb. tins	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100	1 65
Bulk in less quantities	1 80
25-lb. tins, 4 in case	2 05
12-lb. tins, 8 in case	2 30

Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London, Guelph. For quantities less than 100-lb., 2½c. per lb.

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	1 50
Extra do.	2 50
Body Varnish	4 50
Furniture Varnish	0 85
Extra do.	0 90
Demar Varnish	1 60
Hard Oil Finish	1 40
Orange Shellac Varnish	2 00
White Shellac	2 20
Rubbing Varnish	2 50
Polishing Varnish	2 50

Linseed Oil.

Raw, per gal. net	0 50
Boiled, per gal. net	0 53
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net	0 67
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots	0 11½

Cod Oil, Etc.

Cod Oil, per gal.	0 50
Pure Olive	1 20
" Neatsfoot	90

Glue.

(In bbls.)	
Common	0 08
French Medal	0 12
Cabinet, sheet	0 11
White, extra	0 16
Gelatine	0 22
Strip	0 16
Coopers	0 19
A1 clear	0 09

HARDWARE.

Ammunition.

Cartridges.	
B. B. Caps. Dom., 50 and 5 per cent.	
Rim Fire Pistol, dia. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. c. Amer.	

JOHN BOWMAN HARDWARE AND COAL CO.

London, Ont.

S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.

Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.

Central Fire, Military and Sporting, American list. B.B. Caps, discount 45 per cent.

Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot. Canadian, common, 7½ per cent. Brass Shot Shells, 55 and 10 per cent. Primers, Dom., 30 per cent.

Wads. per lb.

Best thick white felt wadding, in ½-lb. bags, 1 00

Best thick brown or grey felt wads, in ½ lb. bags, 0 70

Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99

Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35

Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55

Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20

Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25

Thin card wads in boxes of 1,000 each 8 gauge, 0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—

11 and smaller gauge, 0 60

9 and 10 gauges, 0 70

7 and 8 gauges, 0 90

5 and 6 gauges, 1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge, 1 15

9 and 10 gauges, 1 40

7 and 8 gauges, 1 65

5 and 6 gauges, 1 90

Anvils. Per lb. 0 10 0 12½

Anvil and Vice combined, 4 50

each, 0 09 0 09½

Wilkinson & Co.'s Anvils, 1 lb. 0 09½

Wilkinson & Co.'s Vices, 1 lb. 0 10

Augers.

Gilmour's, discount 65 p.c. off revised list.

Hollow Stearn's, per dozen, 13 00 20 00

Adjustable Stearn's, each, 4 50 6 50

Post-hole, Vaughan's, each, 60 90

Excelsior, Jennings', discount 50 per cent.

Millar's Falls, per doz., 2 8 3 30

AXES.

Splitting Axes, 5 25 5 50

Chopping Axes—

Single List, per doz., 6 00 12 00

Double List, " 11 00 18 00

Bench Axes, 40 and 10 p.c.

Bath Tubs.

Zinc, discount, 3 90 4 00

Copper, discount, 40 and 10 p.c. off revised list.

Steel clad, 20 per cent. discount off revised list. Boxing extra

Anti-Friction Metal.

"Tandem" A, per lb., 0 19

"B, " 0 16

"C, " 0 10½

"Mo" 1, " 0 21

"2, " 0 15

"3, " 0 10

"Canadian" " 0 08½

Magnolia Anti-Friction Metal, per lb., 0 25

No Name Metal, " 0 15

Mystic Metal, " 0 10

F. O. B. New York or Chicago.

Bells.

Hand.

Brass, 60 per cent.

Nickel, 55 per cent.

Door.

Gongs Sargent's, 5 50 8 00

"Peterboro", discount 50 per cent.

Cow.

American make, discount 66½ per cent.

Canadian, discount 45 and 50 per cent.

Farm.

American, each, 1 25 3 00

House. American, per lb. 0 35 0 40

Bellows.

Hand, per doz., 3 35 4 75

Moulders, per doz., 7 50 10 00

Blacksmiths', discount 60 per cent.

Beltling.

Extra, 50 per cent.

Standard, 50 and 10 to 50, 10 and 5 per cent.

Agricultural, 60 and 10 p.c.

Bits.

Auger.

Gilmour's, discount 65 per cent.

Excelsior, discount 60 per cent.

Rockford Common, 70 to 70 and 10 per cent.

"Perfection, 50 and 10 per cent.

Jennings' Gen., net list to 5 p.c. discount.

Car.

Gilmour's, 47½ to 50 per cent.

Expansive

Clark's 40 per cent.

Excelsior, 10 per cent.

Gimlet.

Clark's, per doz., 0 65 0 90

Diamond, Shell, per doz., 1 00 1 50

Nail and Spike, per gross, 2 25 5 20

Blind Rollers.

Annex, per doz., 1 25 1 75

Mascott, " 1 35 1 85

Erminie, " 1 00 0 30

Blind and Bed Staples.

All sizes, per lb., 7½ 0 12

Bolts.

Carriage, 51 and under, dis., 70 per cent.

"¾ and larger, dis., 60 and 10 per cent.

Tire, dis., 70 and 5 per cent.

Stove dis., 70 per cent.

Elevator, dis., 35 to 40 per cent.

Machine, 5-16 and under, dis., 70 p.c.

"¾ and larger, dis., 65 and 10 p.c.

Coach Screws, dis. 75 and 10 p.c.

Plough bolts, 60 p.c.

Boot Calks.

Small and medium, per M., 4 50

Small heel, per M., 4 25

Broilers.

Light, dis., 65 to 67½ per cent.

Reversible, dis., 65 to 67½ per cent.

Vegetable, per doz., dis. 37½ per cent.

Henis, No. 8, " 6 00

Henis, No. 9, " 7 00

Queen City, " 7 50 0 00

Butchers' Cleavers.

German, per doz., 6 00 11 00

American, per doz., 12 00 20 00

Building Paper, Etc.

Plain building, per roll, 0 30

Tarred lining, per roll, 0 40

Tarred roofing, per 100 lb., 1 45

Coal Tar, per barrel, 3 75

Pitch, per 101-lb., 0 60

Bull Rings.

Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.

Brass.

Wrought Brass, dis., 10 p.c. revised list.

Cast Iron

Loose Pin, dis. 70 per cent.

Wrought Steel.

Fast Joint, dis. 70, 10 and 5 to 75 p.c.

Loose Pins, dis. 70, 10 and 5 to 75 p.c.

Berlin Bronzed, dis. 70, 70 and 5 per cent.

Gen. Bronzed, per pair, 0 40 0 65

Cards.

Horse per doz., 0 60 1 00

Carpet Stretchers.

American, per doz., 1 00 1 50

Bullards, per doz., 6 50

Carpet Sweepers.

Bissell, per doz., 22 50

World, " 21 75

Daisy, " 24 00

Star, " 18 00

Crown Jewel, per doz., 29 00

Grand Rapids, " 24 0 33 00

Cartridges.

(See Ammunition.)

Castors.

Bed new list, dis. 55 to 57½ per cent.

Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.

Nos 31 and 32, per gross, 8 50 9 50

Cement.

Canadian Portland, 2 65 2 90

English, " 2 80 3 00

Belgium, " 2 50

Canadian hydraulic, 1 00 1 10

Figures are for barrel lots.

Chalk.

Carpenters Colored, per

gross, 0 45 0 75

White lump, per cwt., 0 60 0 65

Red, " 0 05 0 06

Crayon, per gross, 0 14 0 18

Chisels.

Socket, Framing and Firmer.

Broad's, dis. 75 per cent.

Warnock's, dis. 40 and 5 per cent.

Churns.

Delivered from stock in Ontario: No. 0, \$2.85

No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No.

4, \$4.35—No. 5, \$5.75. Delivered from stock,

Montreal: No. 0, \$3.05—No. 1, \$3.25—No.

2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5,

\$6.05.

Clips.

Axle dis. 65 per cent.

Closets.

Washout, plain, 3 25

embossed, 3 50

Compasses, Dividers, Etc.

American, dis. 62½ to 65 per cent.

Cradles, Grain.

Canadian, dis. 20 per cent.

Dies.

Hart Mfg. Co. (pipe es), (Amer. list), di

40 per cent.

Hart Mfg. Co. (bolt dies), (Amer. list), dis.

per cent.

Door Springs.

Torrey's Rod, per doz., (15 p.c., 2 00

Coil, per doz., 0 88 1 60

English per doz., 2 00 4 00

Draw Knives.

Broad's, dis. 75 per cent.

Warnock's, dis. 25 per cent.

Drills.

Hand and Breast

per doz. net list.

DRILL BIT.

Morse, dis. 37½ to 40 per cent.

Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.

Stovepipe.

Per doz., 85 1 70

FILES.

Globe File Mfg. Co.'s dis., files, 50 and 10

70 per cent.

Black Diamond, 50 and 10 to 60 per cent

Kearney & Footie, 60 and 10 per cent. to 60,

10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.

Jowitt's, English list, 25 to 27½ per cent.

Mechanics' Star & File Mfg. Co. Discoun

60 and 10 to 70 per cent.

FORKS.

Hay, manure, etc., dis., 60 and 10 to 60,

and 5 p.c. revised list.

FREEZERS.

Ice Cream.

White Mountain, 1 to 25 qt., 1 35 13 50

Arctic, dis. 50 p.c.

FRUIT PRESSES.

Henis', per doz., 3 25 3 50

Shepard's Queen City, dis. 15 per cent.

FRY PANS.

Acme, dis. 65 to 67½ per cent.

GAUGES.

Marking, Mortise, Etc.

Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.

Window.

Box Price.

Star.</

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
4 1/2 per cent.		

Wire.

Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		
Light, medium, and heavy.	3 25	
Snow shoes.	3 50	
Steel Shoes.		
Light, all sizes.	3 45	
Extra light.	4 60	
Toe weight (steel).	5 60	

If shipped from factory, Montreal, 10c. per keg less.

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7 1/2 p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L. screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	1 75	7 50

Cabinet.

Eagle, dis. 30 p.c.		
English and Am., per doz.	50	6 40
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17 1/2 p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32 1/2 p.c.		
German, 15 per cent.		

MOLASSES GATES.

Stebbin's Patent, dis. per cent., 7 1/2 per cent		
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NAILS

Quotations are:	Cut.	Wire.
2d. and 3d.	\$2 75	\$3 50
3d.	2 40	3 15
4d. and 5d.	2 15	2 90
6d. and 7d.	2 05	2 81
8d. and 9d.	1 90	2 65
10d. and 12d.	1 83	2 50
16 and 20d.	1 81	2 45
30, 40, 50 and 60d. (base).	1 75	2 51
Steel Cut Nails 10c. extra		
Brads and finishing nails, special sizes, p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety "	0 16 1/2	
American w. w. "	0 17 1/2	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Brass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range 1/4 to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1 1/2 to 4.	100 00	
No. 56 Hand Machine, range 2 1/2 to 6.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37 1/2 to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c. Miscellaneous, dis. 25 to 37 1/2 per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37 1/2 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.

S. R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis. 60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc. (Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and p.c.		
Copper Rivets & Burrs, 37 1/2 p.c. dis. cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37 1/2 per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	9 1/4	10
3/4 in.	9 1/2	10 1/2
1/2 and 5-16 in.	10 1/4	11
Cotton	13	
Russia Deep Sea	14 1/2	
Jute	6 3/4	7 1/2
Lath Yarn	8 3/4	
New Zealand Rope.		

RULES.

Boxwood, dis. 80 and 10, to 80 and 12 1/2 p.c.		
Ivory, dis. 37 1/2 to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47 1/2 per cent.		
B. & A. sand, 40 and 2 1/2 per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Diston's, dis. 12 1/2 to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
frame only.	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 60	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

Wood, F. H., iron, and steel, dis. 85 p.c.		
Wood, R. H., " dis. 77 1/2 p.c.		
" F. H., brass, dis. 77 1/2 p.c.		
Wood, R. H., " dis. 70 p.c.		
Drive Screws, 87 1/2 per cent.		
Bench, wood, per doz.	3 25	4 00
iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 60 p.c.		
Heinisch, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
" japanned handles, 67 1/2 p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37 1/2 p.c.		
Acme	3 00	
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52 1/2 p.c.		

STAPLES.

Galvanized	2 75	
Bright.	2 50	

STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindostan, "	0 06	0 07
" slips, per lb.	0 09	0 29
Labrador.	0 13	
" Axe,	0 15	
Turkey	0	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.



No. 4—3 dozen in case, net cash	\$4 50
No. 6—3 dozen in case,	7 50

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk	75 and 10
Cheese-box tacks, blued	85 and 30
Trunk tacks, black and tinned	85 and 25
Carpet tacks, blued and tinned	80 and 20
(in kegs)	50
Cut tacks, blued, in dozens only	80 and 5
$\frac{3}{4}$ weights	60 and 10
Swedes, cut tacks, blued and tinned	80 and 5
In bulk	80 and 10
In dozens	80
Swedes, upholsterers', bulk	85 and 30
" brush, blued and tinned, bulk	50
" gimp, blued, tinned & japanned	75
Zinc tacks, cut, bulk	35
Leather carter's tacks	65
Copper tacks	65
Copper nails	52 $\frac{1}{2}$
Copper nails	55
Trunk nails, black and tinned	75
Clout nails, blued and tinned	75
Chair nails	45
Cigar box nails	45
Patent brads	50
Fine finishing	45
Picture frame points	25
Lining tacks, in papers	10
" in bulk	15
solid heads, in bulk	80 and 10
Saddle nails in papers	10
" in bulk	15
Tufting buttons, 22 line, in dozens on'y	40
Tin capped trunk nails	15
Zink glazier's points	10
Double pointed tacks	

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

STAR HACK SAWS BUTCHER SAWS BRACKET SAWS

THE STAR HACK SAW

Has a file temper, and one 5-cent blade will do more work than \$1 worth of files. It will cut off an inch square bar of steel 100 times without filing.

THE STAR BUTCHER SAW

Will cut four times as long without filing as any other kind in use. It will cut off a half-inch rod of iron 30 times.

THE STAR BRACKET SAW

Is taking the place of all other kinds.

None of these Star Saws are to be filed, as the price is less than the cost of filing. They are taking the place of all other saws as fast as they become known.

For Sale by Most Hardware Dealers

We also make a Power Hack Saw which may be found in most machine shops and iron working establishments, and should be found in all.

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NEW YORK

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Reads every newspaper in Canada and clips therefrom all articles of a business or personal nature of interest to subscribers in this department.

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THE BRADSTREET COMPANY,
Executive Offices Proprietors.

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Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

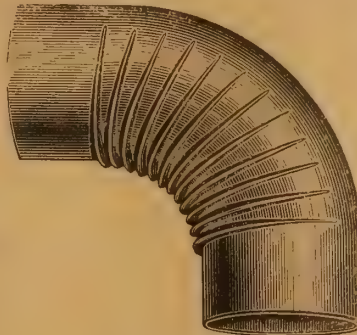
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THOS. C. IRVING, Superintendent

E. T. Wright & Co.

Manufacturers and sole owners

**SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.**



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

THE OAKVILLE BASKET CO.,

Manufacturers of

1, 2, 3 Bushel

Grain

AND

Root

BASKETS

THE OAKVILLE
BASKET CO.



PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



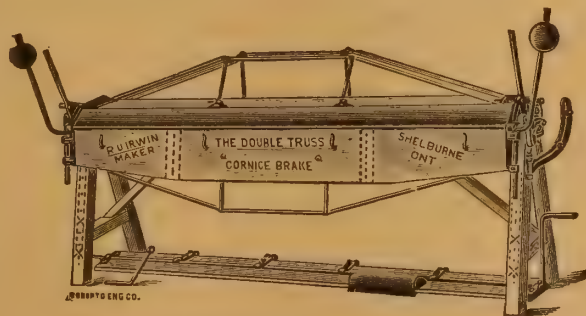
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CATALOGUE.

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. **SHELBURNE, ONT.**

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

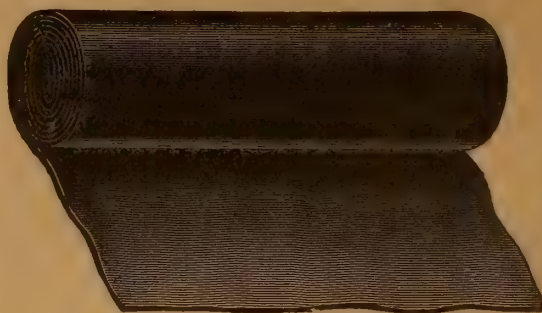
Gold Medal at Atlanta, 1895

TRADE MARK.



HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

**ROBERTSON'S
PORCELAIN
ENAMELS**

are cheap, durable and beautiful; give a smooth, brilliant, glossy surface; are just what are wanted for decoration; come in over 20 different shades; are easily applied, no practice being needed; flow and work freely, showing no laps; are well advertised and sell quickly.

Manufactured by....

The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

Scientific Bearing Metal
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

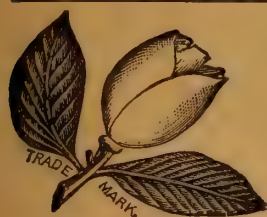
AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MARCH 11, 1899.

NO. 10



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,

266 and 267 West St., New York

"Fleur de Lis" Canada

New brand of **Galvanized Iron**, manufactured by makers
of "**Queen's Head**," and guaranteed equal to any other brand
made excepting "**Queen's Head**"

Working qualities and weight guaranteed same as "**Queen's
Head**."

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD Patent RADIATORS

*For Heating by
HOT WATER and STEAM.*

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company

TORONTO

Limited



Safford
Favorite

RICE LEWIS & SON

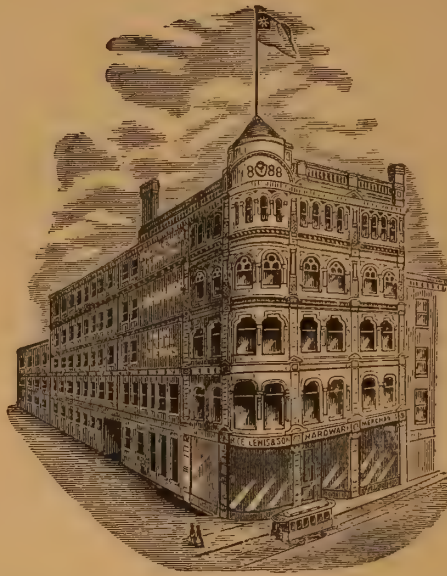
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ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

SAVAGE REPEATING RIFLE

.303 CAL. 2700 YDS.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their
local mills and factories. Special discounts to the trade.
Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

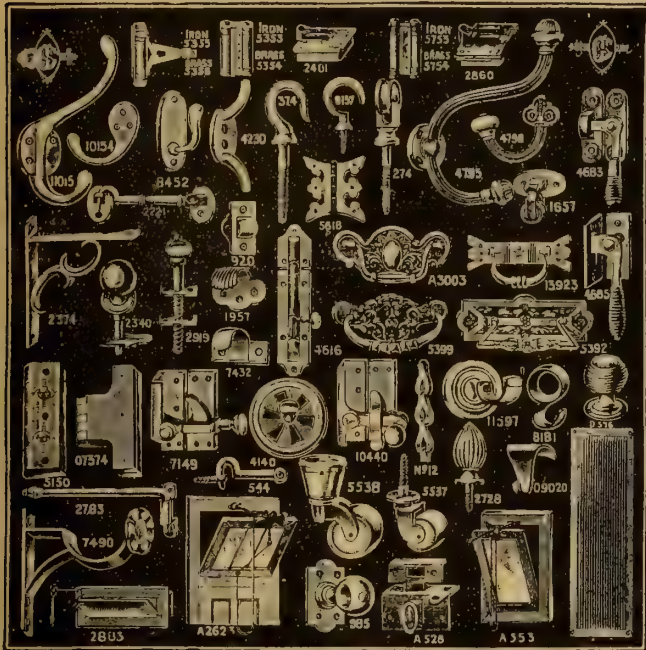
TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

James Cartland & Son

Manufacturers of every description of

**CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
BIRMINGHAM, ENGLAND.**



London Showrooms: 57 Holborn Viaduct, E.C.

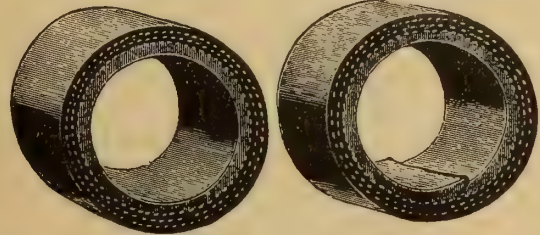
ALL OUR Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.

Ontario Branch,

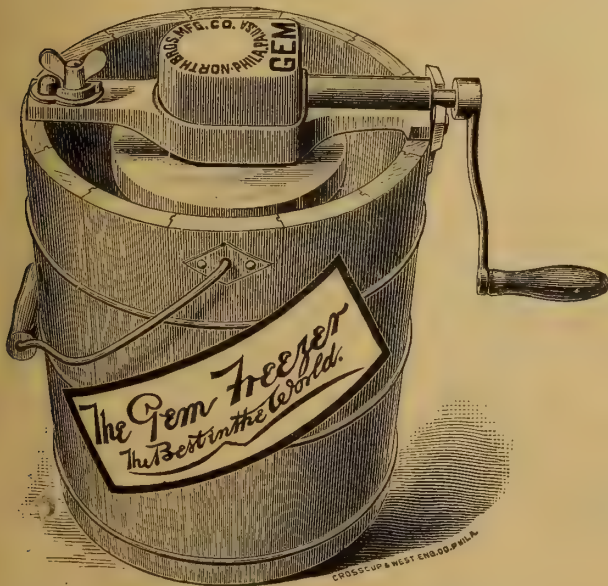
Toronto.

Western Branch,

Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



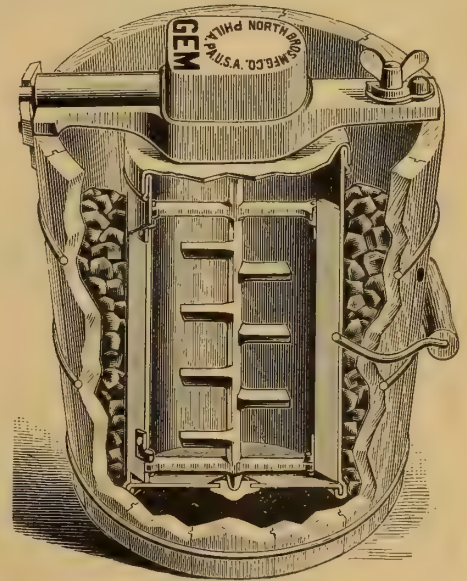
... WITH ... New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAIS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pais and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pais and Drawn-Steel Bottom Can are also shown.

NORTH BROS. MFG. CO.,

Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

Sanderson Pearcy & Co.

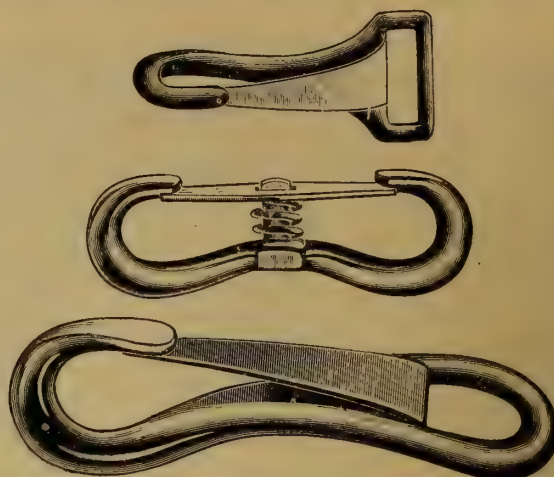
Paints and Oils
Fine Colors
Varnishes
Alabastine
Window Glass

61, 63, 65 Adelaide St. West

TORONTO.

STEEL SNAPS.

FORGED FROM THE BEST BESSEMER STEEL.



We would call your attention particularly to our new

1/2-INCH or BAG SNAP.

Sample sent on application.

ONEIDA COMMUNITY, LIMITED

NIAGARA FALLS, ONT.

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

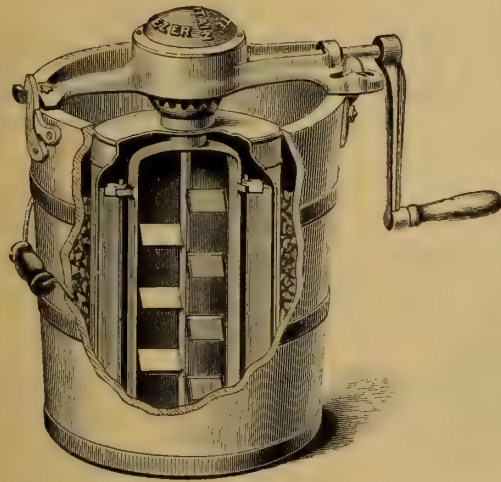
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PRINTED or UNPRINTED.

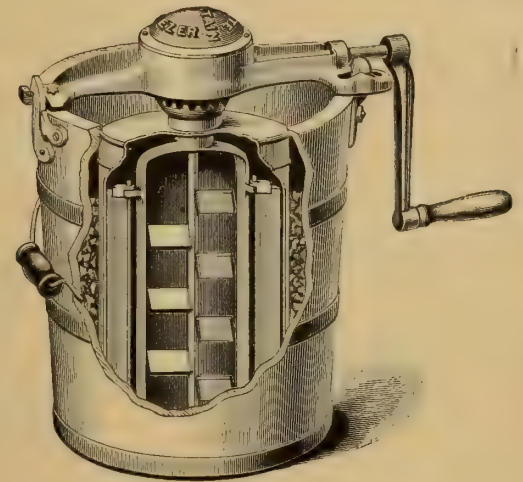
The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

THIRTY YEARS MAKING



ICE
CREAM
FREEZERS



AND NOTHING ELSE.

We study the **freezer business**, and have endeavored to manufacture an Ice Cream Freezer that would produce the largest possible quantity of the finest quality of Ice Cream, most economically with the least labor, in the shortest possible time, and the

White Mountain Freezer

IS THE RESULT.

This one subject we have conquered. The White Mountain Freezer of to-day is the best possible product of skilled workmen, fine materials, careful construction. The result of every resource that experience, and a splendid group of factories, can give, and is acknowledged everywhere to be the standard of excellence.

There is profit in them for the Dealer. Satisfaction for the User.

Sole Agents for the Dominion are . . .

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

Manufactured Exclusively by

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.



No. 16—Six-Cup Egg Stand.

In anticipation of . . .

Easter

We would draw the attention of the Trade to the fact that our line of

Easter Novelties

and Staples is very complete.

We are not members of the Silverware Trust or of any Silverware Association or Combine

The . . .

Toronto Silver Plate Co., Limited

Silversmiths and Manufacturers of Electro Silver Plate.

Factories and Salesrooms:

King St. West, - TORONTO, CAN.

E. G. GOODERHAM, Managing-Director.

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

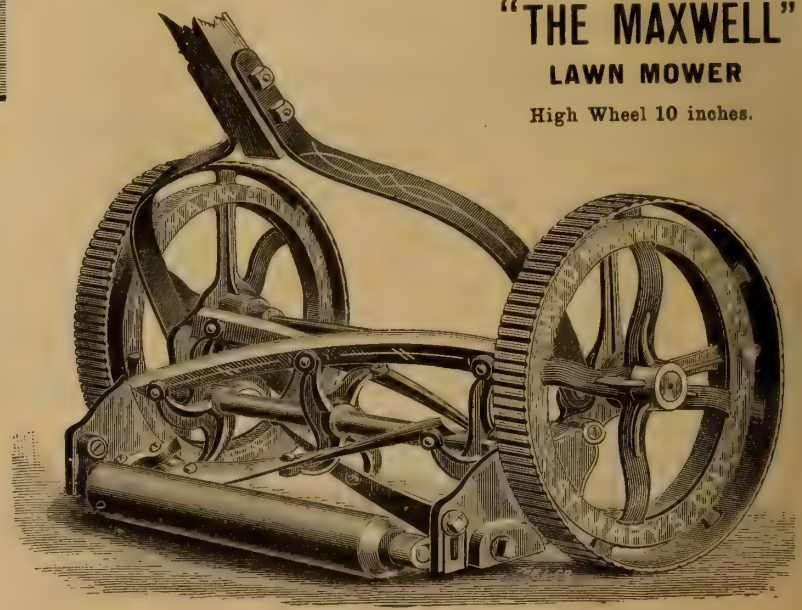
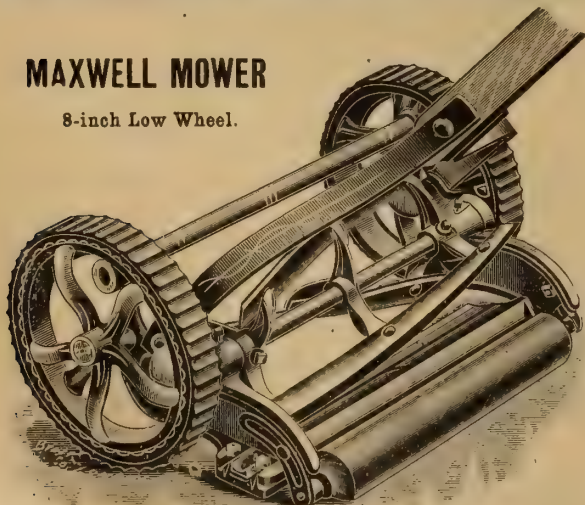
"THE MAXWELL"

LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



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NOVA SCOTIA PAINT AND VARNISH WORKS.

MANUFACTURERS OF

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for



Brandram's

Celebrated ENGLISH White Lead.

HALIFAX, and 747 Craig St, MONTREAL

LUXFER PRISMS

CARRY DAYLIGHT
with wonderful success.

All progressive business men recognize their value.

"The most useful, and the most profitable
improvement you can put into commercial
premises."



EATON'S—WITH PRISMS



EATON'S—WITHOUT PRISMS

Send for Descriptive Booklet to . . .

The Luxfer Prism Company

Limited

58 Yonge Street

Toronto.

Installation at premises of
The T. Eaton Co., Limited } A STORY WITHOUT WORDS.

If you want to SELL

Summer stoves—why not keep them on hand?

Order a stock of —

QUICK MEAL

**Gasoline and Blue Flame Oil
and OXFORD Gas Ranges.**

Superiority in construction, sterling reliability, and just those details of convenience that appeal to all customers, are their strong points.

We are sole Canadian agents for the Quick Meal lines, and recommend your special attention to the new Wickless Blue Flame Quick Meal, made in full lines this season.

The Quick Meal and Oxford Gas lines are the most profitable sellers you can handle.

Have you our catalogues?

If not write for them, and make out your order.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

Tinned Sheets

Our stock is now complete
in all regular and special sizes.

Write for Prices.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin
164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

The "STANDARD WICKLESS"

Blue Flame Oil Stove.

The stove that will revolutionize the oil stove business in 1899. Unique and "Fetchy" in appearance. The kind that sell easy and stay sold, because it has :

No Wicks to trim or replace.
Sight drip oil feed.
Measuring cup for starting.
All parts interchangeable and
Easily kept clean.
Simple operation.
Rapid action.



Made in eight styles and sizes, and built on new cabinet frame.
Write us for catalogue and prices.

The Thos. Davidson Mfg. Co., Limited, Montreal

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

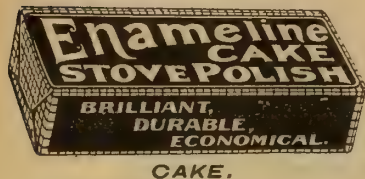
These Twines will not bunch at the knoter,
and a Binder will run all day with them with-
out stoppage, thus saving time, annoyance
and an endless lot of trouble.

We pack our twine in bags of the size of ordin-
ary grain bags and are not ashamed to put
our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

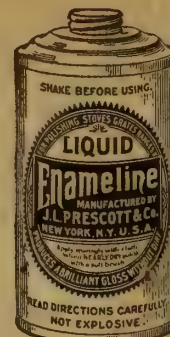
The Modern STOVE POLISH



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Write for Latest Catalogues and Samples to

THE LONDON EMERY WORKS CO.,

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality for general and special purposes.

EMERY GRINDING MACHINERY

10-12 Vine Street
Clerkenwell,

LONDON, E.C.



Kemp's Wickless Blue Flame Oil Stoves.

A New Feature this year will be our Wickless Blue Flame Oil Stove.

**HANDSOME, CONVENIENT
and ABSOLUTELY SAFE.**

The Oil is fed to a powerful burner through Solid Brass Tubes, and Lights Instantaneously.

SIGHT FEED.

Removable Tanks, covered by Swinging Shelf.
No Complications, as Stoves are supplied with Removable Parts and can be quickly taken to pieces.

ECONOMICAL IN FUEL.

The Simplest, Readiest Understood, and most Reliable Wickless Blue Flame Stove made.



KEMP MANUFACTURING CO. - Toronto, Can.



Vol. XI.

MONTREAL AND TORONTO, MARCH 11, 1899.

No. 10

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JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO.
Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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Subscription Canada, \$2.00 Great Britain, \$3.00

Published every Saturday.

Cable Address { Adscript, London
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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE COURSE OF METAL VALUES.

THAT there has been no let up to the remarkable buoyancy in iron values is evident from a comparison of the prices ruling at leading centres at present with those of last week. For, while values on pig iron have not varied very greatly at Pittsburg during the interval, the same is not the case at New York or Philadelphia, two leading distributing centres.

Pennsylvania makes of pig iron in New York to-day are from \$1 to \$1.75 per ton higher than last week for the premier grade. In the same period Southern iron in New York has advanced from 75c. to \$1 per ton on last week's level.

Steel rails for eastern delivery are \$4

higher than they were quoted on the 1st of March, and No. 1 wrought scrap iron sold in New York, Tuesday, at an advance of \$2 per ton compared with the first day of the month.

In Philadelphia, while No. 1 foundry iron has not varied, No. 2 and grey forge iron are 25c. to 50c. per ton dearer than they were on the first of the month.

In Pittsburg, grey forge is 50c. higher at \$12.25, Bessemer pig, 50c. to \$1 up at \$13.25, and billets continue to stiffen, being quoted at \$23, which is a gain of \$1 on the price asked March 1. The same strength is displayed in other lines of heavy material, such as sheet steel bars and muck bars which are \$1.25 to \$1.50 higher than they were seven days ago.

In this connection a comparison of the prices ruling now in England and the United States with those for the same period last year is interesting. The following tables will show the difference at a glance :

English prices are as follows :

	1899	1898
Scotch warrants.....	54/4	46/3
Middlesboro No. 3.....	47/7½	40/7½
Lead, Soft Spansh	13 17/6	12 10/
Spelter, G. M. B.....	27	18 5/
Straits tin, spot.....	107	65
Copper, G. M. B.	70 7/6	50 3/9
Silver	27 7/16	25 3/16

American prices are as follows :

	1899.	1898.
Pig iron warrants.....	\$10 00	\$ 6 80
No. 1 foundry, Pittsburg.....	13 50	11 00
Bessemer, "	13 25	10 25
Steel billets, "	23 25	15 40
Sheet steel bars, "	23 50	17 50
Lead, desilverized "	4 25	3 80
Spelter, domestic "	06¼	4 25
Straits tin, spot.....	23 60	14 40
Copper, Lake ingot	17 65	12 00
Tinplates, J. B. grade coke, toolb.....	3 75	3 75
Antimony, Cookson's.....	10.75c.	8 00
" Hallett's.....	10.00c.	7 75
Silver, commercial bars.....	\$ 59¾	54¾

While iron values have been pointing upwards, prices for some of the leading metals have declined. But it is not at all surprising that there should be reaction in these, when the remarkable appreciation in value that they have recorded this spring is considered. Copper has been distinctly easier lately, outside having declined £1 10s. in London since the beginning of the month, while the price in New York is 25c. lower than it was. So far, these changes have not influenced Canadian prices, but they are quite apt to.

Tin, also, has declined in London, being cabled 16s. 3d. lower on Tuesday than it was on the 1st, and in New York prices have eased off 30c. in the same interval. Spelter has also declined 15s. in London since the first of the month.

ADVANCE IN IRON PIPE.

Quite an advance has taken place during the past week in the price of iron pipe, both galvanized and wrought.

The price to retailers, per 100 feet, is now as follows : Wrought pipe, ¼ to ½-inch, \$2.65 ; ¾-inch, \$2.95 ; 1-inch, \$4 ; 1¼-inch, \$5.30 ; 1½-inch, \$6.90 ; 2-inch, \$9.10. Galvanized pipe, ¼ to ¾-inch, \$5 ; ½-inch, \$5.30 ; ¾-inch, \$5.90 ; 1-inch, \$8 ; 1¼-inch, \$11.20 ; 1½-inch, \$13.20 ; 2-inch, \$18.35.

Manufacturers of wrought iron pipe in the United States have adopted a revised price list of standard extra and double extra-strong wrought iron pipe and well-casing. In order to simplify the discounts, the list has been compiled with the idea of using one base discount for standard black or galvanized extra-strong pipe, instead of different discounts as heretofore.

THE STOVE SITUATION.

AS a result of last week's paragraph in **HARDWARE AND METAL**, intimating that there was a possibility of an advance in stoves taking place, quite a number of inquiries have been received by the various manufacturers.

Merchants dealing in stoves certainly cannot do better than protect themselves against an advance, for if prices do not appreciate they certainly will not depreciate.

It will, perhaps, be not out of place to reproduce an article from *The Metal Worker*, of New York, in regard to the increasing cost of stoves. The article reads as follows:

"It is probable that the stove merchants of the country are not all aware of the decided change that has come over the iron trade. They have grown so accustomed to low prices, and to a still lower level when they thought bottom had been touched, that it may be somewhat difficult to realize the actual departure of low prices and the change to a decided move upward. The turn came last summer, and, since then, quite a gain has been made in the price of everything entering into the manufacture of stoves. Taking the prices of foundry pig iron at Chicago as a basis of comparison, it will be found that, in August last, No. 2 Southern foundry was being freely sold at \$10.10 per ton, or lower, and No. 2 foundry from Lake Superior ores was selling at \$11, and probably lower. Southern No. 2 is now hard to get at \$13.50, while Northern No. 2 is strong at \$12.50, with everything pointing to higher figures. In August, No. 27 common sheets were being laid down in Chicago by the mills at 2c. per lb., or possibly in extreme cases at 1.9c. They are now hard to get at 2.25c. Does any one suppose that stove manufacturers will part with their goods at old prices when they must pay such advances for new stocks of material? These advances are not alone in the west, and not alone in this country, but abroad as well as at home. The world at large seems to be suffering from a short supply of iron and steel."

SCRAP METALS WANTED.

During the past two weeks there has been an advance of 3 to 4c. per lb. in all scrap copper and brass. As this means an increase in the price of from 50 per cent. in

some cases to 100 per cent. in others, it will be seen that the unusual strength in the metal market has not failed to influence scrap metals.

The feeling now evidenced is decidedly firm, the demand being so strong that a seller having a good quantity of brass or copper to dispose of, could be sure of $\frac{1}{2}$ to $\frac{3}{4}$ c. better prices than those quoted.

THE WIRE NAIL SITUATION.

While there has been no quotable change in the price of wire nails at either Toronto or Montreal during the past week, it is by no means likely that many days will elapse before there is another appreciation.

In the United States, the situation continues to gather strength. The *Iron Trade Review*, of March 9, states that billets are \$23.50 to \$24, or within \$1 per ton of the highest point touched in 1895. Wire rods, which are now nearly altogether controlled by The American Steel and Wire Co., are almost impossible to get, for the company is itself a purchaser. Wire rods are up to \$29 in Chicago this week.

A despatch from Pittsburg states that the manufacturers have advanced their prices on wire, steel and wrought nails 10 per cent. "The basing rate," says the despatch, "remains the same, but the discount has been taken off."

PRICES ADVANCING.

Articles in the hardware trade into the manufacture of which wire enters are gradually being advanced in price.

This week, halter, trace, and dog chains are about 25 per cent. above the figures ruling heretofore.

Screw hooks and hinges are much dearer, now being quoted at \$3 to \$3.75.

PRICES OF TINNED SPOONS.

Jobbers in Canada have, this week, been notified by the manufacturers in the United States of the withdrawal of prices on tinned spoons and forks and silver plated spoons and plated spoons and forks.

SPRING HINGES DEMORALIZED.

There is one hardware line which, in spite of the upward tendency of prices, seems to be demoralized at the moment. We refer to spring hinges, they now being sold by the jobbing trade at all sorts of prices.

COMBINATION ON BICYCLE TIRES.

THE DUNLOP TIRE CO., the Graham Tire Co., the Hartford Tire Co., the New York Tire Co. and the Canadian Rubber Co. have all arranged with Rice Lewis & Son, Limited, whereby the latter will handle their tires and sell them to the trade, manufacturers, dealers and repair men at the same price as they (the different companies) would sell them at.

This will be of great assistance to the members of the trade generally, as it will enable them to get their tires and sundries together. This arrangement is expected to work satisfactorily, especially in view of the fact that the Messrs. Rice Lewis & Son, Limited, give no preference to any of the tires made by the above mentioned companies, all being sold on their individual merits.

Rice Lewis & Son, Limited, are to be congratulated upon the arrangement they have made.

CANADIAN PRODUCTS FOR FRANCE.

The Paris Exhibition opens April 15, 1900, and closes November 5 following. Canadians who propose exhibiting must return forms of application for space to the secretary of the Canadian Commission, Ottawa, not later than June 1, 1899.

It is to be hoped that there will be a good exhibit of the natural products of the Dominion at this exhibition.

Canada's exports to France are increasing, but still, according to the returns of 1897, they have not yet reached in value the sum of \$700,000, in spite of the commercial treaty.

Our chief exports to France for the fiscal year 1897 were: Animals, \$125,014; fish and fish products, \$295,974; lumber and manufactures of wood, \$152,019. It is obvious, therefore, that it is the natural products of the country which a particular effort on the part of Canada should be made to bring before the French people and the people of other nations who will visit the exhibition.

Canadian wines should not be overlooked for the exhibition. While France is a large producer of wines, it is also an importer. Lately it has been importing from Australia, and Canada, in 1897, sent \$1,210 worth of wines and spirits.

CIVIC HOLIDAYS AND BUSINESS.

ALTHOUGH the month when civic holidays are held in Ontario is some distance away yet, the time when the different municipalities select the date for the holiday is not so very far distant.

As our readers are well aware, a great deal of dissatisfaction exists among merchants and commercial travelers on account of the different dates which different towns and cities set apart for the holiday in question.

Some have advanced the argument that the Ontario Government should take the matter up and secure legislation giving it the power to fix a date uniform all over the Province. But a holiday so fixed would cease to be civic; it would be provincial.

The difficulty could, however, be overcome if the municipalities, within a certain radius at any rate, would consult with each other and agree upon a certain date for the holiday. The idea might both improve and expand with practice until uniformity in dates is realized.

HARDWARE AND METAL introduces the subject at this time in order that an expression of opinion might be obtained in regard thereto from merchants and commercial travelers. What is courted is pointed and brief letters, and it is to be hoped a number will be received in time for the next issue of this paper.

WILL THE PRICE OF BICYCLE SUNDRIES ADVANCE?

There has been an advance of from 10 to 20 per cent. in the price of materials which enter into the manufacture of such bicycle sundries as wrenches, bells, pumps, locks, etc.

In consequence of this, it is just a question with many of the dealers whether they will not be compelled to cancel their present price list on bicycle sundries.

Shrewd retailers throughout the country are booking orders with a view of protecting themselves, and they are certainly wise.

TURPENTINE STOCKS LIGHT.

*The stocks of turpentine in Toronto are unusually light. Many large houses have literally no stocks on hand and the rest have but very few barrels.

The price in Savannah has appreciated 1c. within the past week, so it is likely that

an advance will be noted here before the end of the week, but no change has been made as yet.

CUSTOMS FRAUDS AND METHODS OF TRYING THEM.

HON. W. PATERSON, Minister of Customs, a few days ago imposed a fine of \$2,600 upon a manufacturing firm in Toronto for alleged attempt to defraud the Customs.

The case was, no doubt, proved to the Minister's satisfaction. If it had not he would scarcely have levied the fine he did.

But is it the proper thing for the Minister of Customs to be the judge in such cases? We think not.

When the Minister of Customs adjudicates upon such cases he is adjudicating upon cases in which his Department is the plaintiff. In other words, cases in which the Department is both prosecutor and judge. This is contrary to what is the accepted sense of British justice.

But that is not the only basis for objection against the present system. The other is the secrecy with which the present system is carried on. An importer is charged with defrauding the Customs. His case comes for review before the Minister, who gives his decision, for or against the importer, but it is a rare thing indeed that publicity is given to the matter. It is not, perhaps, that the Department takes particular pains to keep the affair from the press; but it certainly does not make any effort in the other direction.

Cases in which persons are charged with defrauding the Government—whether by fraudulent invoices, fraudulent entries or smuggling—should be ventilated, not before the head of the Department, but before a regular court of justice. This would not only do away with Star Chamber decisions, but would result in publicity being given to such cases, which could not be otherwise than wholesome.

Publicly ventilated cases of Customs frauds would be a strong deterrent to attempts at such practices, for there are a great many men who would dread publicity far more than they would a fine of even a few thousand dollars. But trial before a judge would entail, on the case being proven, the punishment of a fine as well as the penalty of publicity.

DISCUSSING POLITICS WHILE CUSTOMERS WAIT.

WHEN merchants keep customers waiting while they discuss politics or some other pet subject they are riding for a fall.

Some customers may be disposed to be interested in the discussion, but a great many have neither the inclination nor the time to do so.

This article is inspired by a concrete example.

All the clerks in a certain store were at lunch. The proprietor was behind the counter. His hands were deep down in his pockets. There were several customers in the store waiting to be served. But they waited. The proprietor was discussing politics.

After waiting fully fifteen minutes, one of the customers quietly glided towards the door. Just as his hand touched the door latch, the proprietor, without moving from his position, cried: "Is there anything I can do for you to-day?"

"Oh! I'll see you again," replied the customer as he shut the door. Jumping into his sleigh he drove off.

Even this hint was not sufficient to turn the attention of the storekeeper to the remaining customers in his store, and he was only eventually drawn away from the political discussion by an impatient customer summoning up courage to call him away from politics to business.

That same merchant has been grumbling a great deal lately about the dulness of trade in general, and the evil of departmental stores in particular. Is it any wonder?

EAVETROUGH IS HIGHER.

It was intimated in last week's issue of HARDWARE AND METAL that an advance in the price of eavetroughs was probable. This expectation has been realized, for prices are this week over 12 per cent. higher than those heretofore ruling.

These are the new prices: 3-inch, \$2.80; 4-inch, \$3.50; 5-inch, \$4; 6-inch, \$5.25.

As there had not been a great many orders booked before the advance, the bulk of the business has yet to be done.

SAD IRONS DEARER.

Mrs. Potts sad irons are dearer this week by 10c. per set. The price now is 65c. per set for polished, and 75c. per set for nickel-plated.

THE GENERATION OF ACETYLENE.

OF the many methods and schemes proposed by different inventors for the automatic generation of acetylene, possibly the simplest is that adopted by some of the manufacturers of bicycle lamps and portable house lamps, in the operation of which the demand for gas, once existing, does not vary, writes C. A. S. Howlett, in Cassier's Magazine for March. The gas is generated by feeding the water into the carbide chamber drop by drop, continuously, while the light is wanted, safety appliances in the form of a valve or water seal being provided to allow the gas to escape if generated too rapidly. The form in which the carbide is introduced into the generators of this type has demanded much attention. Some designers use the carbide in a semi-powdered condition, made into cartridges, presumably under pressure, incased in an absorbent paper covering. Other designers in this class use the carbide in a granulated state, incased in a tin cylinder provided with a central perforated tube into which the water is allowed to drop. Others use absorbent paper partitions to subdivide the mass of carbide, while some use glass disks. The carbide is used by others in its normal state, contained in a number of shallow iron pans having solid bottoms and perforated sides, the water being fed into the calcic carbide chamber from below.

Another successfully practised scheme of automatic generation is an adaptation of the well-known principle of the hydrogen gas generator. In this the supply of carbide is brought into contact automatically with a comparatively large body of water. The carbide receptacle is attached to the top of a gasometer. As the gasometer falls, the carbide comes in contact with the water, and the gas which is generated forces the gasometer up, thereby removing the carbide from intimate contact with the water. The gas generated from the moisture absorbed by the refuse, and also that generated by the vapors arising from the surface of the water, is taken care of by gasometers of ample capacity. As the gasometers fill, they automatically shut off any further supply, and, if the generator should be filled, a safety appliance is provided which allows the gas to escape out of doors.

If the demand be intermittent, as is the case when the gas is used for general illuminating purposes, this type of generator should never be employed unless provided with a sufficiently large reservoir to hold all the gas that the amount of carbide used is capable of generating, or by making the containing vessel sufficiently strong to withstand the consequent increase in pressure. When an increase in pressure is employed,

automatic reducing valves or governors should be used to reduce the pressure from whatever it may be in the generator to one equivalent to a column of water between two and three inches in height, at which pressure the acetylene burners give the best results.

A recent machine, quite novel and simple, consists of a series of isolated receptacles, arranged in steps, each holding a comparatively small quantity of carbide and all connected by means of pipes to a common gasometer and automatic water feed. There are a number of types, styles and designs of automatic water feed, all accomplishing the same result, namely, introducing water into the carbide receptacle automatically as the gas is consumed. The gasometer is of such a size that it will hold all the gas generated after the demand ceases at any time. As the gasometer falls, it automatically turns a water-cock, allowing the water to rise from below and enter the lower receptacle. After slacking all the carbide in the first chamber, the water rises to the next, and so on through each compartment. This arrangement has given very good results.

STOCK AND CAPITAL.

An interesting subject which is worthy of all retailers' attention is just what proportion of the average amount of stock carried by a hardware store doing a cash business should be paid for, remarks Stoves and Hardware Reporter. There are many things which must be taken into consideration before a satisfactory explanation can be given. If the store is situated in a favorable locality where a rushing business is done, conditions naturally differ from those where business is less brisk and the store is not so prominent. Where an aggressive cash business, with a quick turnover is done, the amount of stock carried will be in closer proportion to the cash capital than in cases where it is necessary to carry a good deal of stock for a considerable time and sell on credit. It of course stands to reason that the closer the proportion of the amount of stock carried to the cash capital the healthier the business and the more often that stock will be turned. Quick payments for merchandise are particularly recommended. Where it can possibly be done, it would be well to purchase goods on a 10 days' basis. This, of course, is impossible where the stock is carried largely in excess of the cash capital. The minimum proportion of stock to capital would be when the former represents a value equal to twice the latter, and this should only occur when the merchant is just starting in business. As a general thing, dealers find that a fair average for the proportion would be to have the stock represent a value of not more than 50 per cent. in excess of the capital.

OTTAWA RETAIL MERCHANTS.

THE Retail Merchants' Association of Ottawa, on Friday night, March 3, passed a resolution favoring the \$30,000 grant to the Central Canada Fair. The resolution read as follows:

"Resolved that the retail merchants of Ottawa are in favor of a \$30,000 grant to the fair, and view with alarm any agitation that would tend to mislead the outside public regarding the management of the same. We are in favor of any reasonable expenditure that will keep the association up to the high water mark that it has attained.

"The association regards the fair as the best advertisement that the retail merchants of Ottawa have, and they are strongly in favor of an up-to-date progressive exhibition, and have every confidence in the present management."

The resolution passed unanimously there being no discussion.

The trading stamp question also came up for consideration. The association passed a resolution approving of the efforts of Ald. Lang to have a by-law passed taxing trading stamp companies. It was also suggested that some effort be made to have the merchants themselves control the stamp business, so that the money expended in them will at least be left in the city. Steps were outlined, but the matter will be taken up at another meeting.

The association also favors the amending of the early-closing by-law so that merchants will have the privilege of keeping open at night from December 15 to 31, and also during exhibition time, providing that it will in no way interfere with the validity of the by-law.

President Lang presided at the meeting, and there was a fair attendance, there being about 11 members present.

A NEW BAG SNAP.

The Oneida Community, Limited, of Niagara Falls, Ont., have just added a ½-inch or bag snap to their line of solid steel snaps. The new snap is of the same general appearance as the larger snaps. It will undoubtedly be largely used on satchel straps, school-bag straps and for similar purposes where a small snap is required. Samples are sent free on application.

**WIRE NAILS
TACKS
WIRE**

Prompt Shipments

The ONTARIO TACK CO
Limited
HAMILTON, ONT.

WINDOW DRESSING.

THAT there has been a great deal of preaching done upon the subject of window dressing, I know full well, writes Edith R. Gerry in *Printers' Ink*, but it would seem that even those who thoroughly realize the power of advertising have not accorded just importance to this valuable branch of publicity. Window dressing is just as important as newspaper advertising. In fact, it is almost an indispensable part of advertising, playing the part of the poster much better than the poster does itself. It should have as careful attention as the newspaper advertising. It should be in the hands of a man just as capable as the advertising manager; and, moreover, one who fully appreciates the fact that advertising is the steam which propels the engine of business. In one way window dressing is certainly more valuable than newspaper advertising may ever hope to be, because, although it has not so much certain "circulation," its display is much more prominent, and it places the real article right in one's eye, and we all know how much quicker pictures tell a story than type, even if the type is read, and very many people will look in windows who will not read advertisements. In many of the large stores there is a capable man in charge of this branch, but he is usually treated as an alien. He has to fight to hold his own, and is looked upon in the light of an usurper who is trying to "do" everybody, and must be promptly squelched.

The windows of a store are like the index to a book—they tell what is within. If they are judiciously and artistically arranged, so that the effect is attractive and interesting, the impression is one which will be pleasantly remembered, even if it is not acted upon at once. We are most of us influenced by effect. It is only the artistic or scientific mind that tends to dissection, and because a window is attractively dressed it does not follow that a window must be richly dressed.

Very many people before deciding just what they want to buy, and where they want to buy it, "look in the windows." especially is this true of the class who have not the time to do their gazing by daylight, but must gaze at night after the stores are closed. All merchants concede that the real profit lies with these people, and certainly every endeavor should be made to make it as easy as possible for them to part with their money. The shades should be up at night and the lights bright. This will always attract the attention of those who pass, even if they are not thinking of such things, and will prove very effective advertising. These passers-by will purchase sometime, and then it is pretty sure to be at the store whose window display has attracted and pleased

On The Wave
Of Prosperity.

Business is good everywhere. People have money. Prosperity is in the air. Painting is brisk, and S. W. P. is in demand. It rides on the very crest of the wave. It has reached that position, because of its genuine worth—because it's a good honest paint, and does all that's claimed for it. It wears well. It looks well. It covers well, and is economical. It sells well because of these things.

Do you handle it?

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

them most, notwithstanding the fact that the other stores may have advertised the same goods in the newspaper columns.

And window arrangements should be frequently changed. Make a woman think she will see something different in the windows every time she passes your store. She will learn to look for them and greet them as old friends. If I were building a store, I would have it situated in an open space and surrounded with glass from top to bottom. In every available space I would have merchandise artistically displayed, and the whole brilliantly lighted.

Please don't squelch your window-dresser. Respect him, and treat him as liberally as you do the all-conquering advertising manager. If you yourself are divided into proprietor, advertising manager, window-dresser, etc., be sure that the window-dresser part of you is as large and as active as the others. It will pay.

THE E. B. EDDY CO., LIMITED.

At the annual meeting of The E. B. Eddy Company, Limited, in Hull, satisfactory reports were read and adopted, and the following officers reelected for the current year: President, E. B. Eddy; vice-president, S. S. Cushman; secretary-treasurer,

W. H. Rowley. During the year ended 31st December last the turnover was \$1,800,000.

NOVA SCOTIA'S GOLD OUTPUT.

At the meeting of the Canadian Mining Institute on Thursday, Mr. G. W. Stewart, mayor of Truro, alluded to the gold output of Nova Scotia during the past year, which, he said, amounted to 31,105 ounces. The quantity of material milled, from which the gold was extracted, amounted to 86,331 tons. That they were undergoing a complete and entire change in methods of working, mining and milling, might be shown by the fact that in 1867 it took 218,894 days' labor to produce 31,386 tons of ore, which yielded 27,314 ounces of gold, whereas in 1898 it took but 186,212 days' labor to produce 86,331 tons of ore, which yielded 31,105 ounces of gold. Last year, there were taken from the district of Goldenville, by two small companies, 14,429 tons of ore, which yielded 4,745 ounces of gold.

Speaking about the profits made by one of these companies, Mr. Stewart remarked that last month's running amounted to 1,500 tons of ore, from which had been taken 650 ounces of gold, valued at \$12,775. The cost of production had amounted to but \$4,500, leaving a net profit of \$8,000.

FORGE WORKS FOR OTTAWA.

THE OTTAWA CITIZEN of Monday last, contained the following: "The present year will see the establishment in Ottawa of a system of steel forge works, as well as a factory for the conversion of sawdust and other waste matter from the sawmills into calcium carbide and other articles of commercial value. Plans for the proposed industry have been prepared, and will be carried into execution as soon as the necessary arrangements can be made and the weather permits. The plant will be increased from time to time, until it is sufficiently large to utilize the waste produce of mills in and adjacent to Ottawa.

"The discoveries by Prof. V. L. Emerson, who is the promoter of this scheme, are not confined to the above, but another and most important one has been added to the list and will doubtless mean the establishment in Ottawa of a large industry. After a system of thoroughly conducted experiments Prof. Emerson has developed a process whereby the waste materials of the mills can be utilized to the greatest advantage in converting iron ores found in this district into the highest grade of steel, while the cost of doing so will be very nominal. The United States are at present the greatest consumers of charcoal pig iron, but owing to the scarcity of charcoal in a reasonable radius of the mines the product has been tremendously reduced, while the demand is steadily increasing for high-grade steel necessary to produce cold-drawn bicycle tubing.

"Prof. Emerson's process will convert this iron into steel and establish in Canada an industry whose supply is now largely obtained from Sweden. With the natural facilities existing in Ottawa and vicinity and the character of ore being similar to that of Sweden, the product can be manufactured to command a price as high as \$120 per ton. If the experiment proves as successful as seems probable, it will do away with the present necessity of shipping ore abroad in order to have it treated and returned to be manufactured into various articles.

"As soon as the weather will permit Prof. Emerson will establish his apparatus in Ottawa to demonstrate the practicability of the process as well as its commercial value. The plant will be enlarged from time to time and the industry promises to be a most important one for this city and the country at large."

BINDER TWINE ADVANCED.

There is a very strong feeling in binder twine as a result of the strength in the States. Late news from American mills this week is to the effect that some have withdrawn quotations, and that others refuse

to name any price at all. Those who are requesting ask an advance of \$20 the ton, or 1c. per lb. The rise in the cost of raw material, Manila hemp having gone up \$40 the ton, which, of course, is responsible for the advance in the finished article. Cordage in the States has also been marked up 1 1/2c. per lb., or \$30 the ton.

MR. DELISLE IS APPOINTED.

Mr. C. A. deLisle, 573 Church street, Toronto, has been notified of his appointment as representative in Canada for the new American Wire and Steel Co. Mr. deLisle represented the old company.

The Leader Churn

(TWO STYLES.)

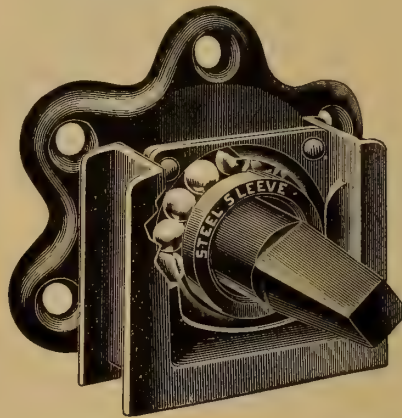
1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.
SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



This is our Latest Stand, with Ball Bearings.

*Made exclusively by***THE DOWSWELL MANUFACTURING CO., Limited****W. L. HALDIMAND & SON**

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA

IF YOU HAVE MONEY

and get our Cycle Catalogue. It will tell you why our wheels are right and why you should

to spend for a bicycle, you should send

Buy Iver Johnson Cycles

You, of course, want a good bicycle. We make that kind—none other. All connections in Iver Johnson Cycles are made from solid drop forgings, which is the strongest form of construction. There are cheaper ways of making these, but they are also poorer. We make bicycles listing at prices from

\$ 40 TO \$ 75

This includes chainless and 30-in. wheels—we have them all—we guarantee them all—we can safely do so. We give away, free, a complete descriptive book showing these wheels and their good points. Do you want it? Send postal to

Iver Johnson's Arms & Cycle Works
Fitchburg,
Mass.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

H. S. HOWLAND, SONS & CO., TORONTO.

MUST BE SOLD

We are anxious to close out the entire stock in the warehouse of

AT ONCE

Samuel, Benjamin & Co.

AT ONCE

Among the goods which we offer away below Importers' and Manufacturers' costs, are the following staple lines :

Trowels, Pointing, Plastering or Brick ; Spokeshaves ; Turnscrows : Mechanics' Steel Rules ; Try Squares, Kents & Marple's ; Bevels, Marples' ; Gauges, Gimlets, Plumb Bobs ; Saw Sets ; Saddlers' Punches ; Compasses ; Dividers ; Calipers ; Pliers, Flat or Round Nose, Nippers, Gimlet Bits, Shell Bits, Nose Bits, Spoon Bits, Centre Bits, Countersunk Bits, Turnscrow Bits, Hollow Augers, Knitting Pins, Upholsterers' Needles, Packing Needles, Awls, Steel Figures and Letters, Taper Taps, Stocks and Dies, Pipe Reamers, Timber Scribes, Level Glasses, Pinking Irons, Spoke-shave Irons, Plain Irons, Disston's Hand Saws ; Disston's Rip Saws, Braces, Stubb's H. S. Files, Shoe Rasps, Wrenches, Butter Tryers, Ham Testers, Saw Handles, Bung Borers, Iron Escutcheon Pins, Finishing Nails, Copper Tacks, Shoe Nails, Hammer Heads, Mallets, Board and Log Rules, Cartridges, Meat Cutters, Shot Pouches, Powder Flasks, Ox Balls, Cattle Leaders, Ox Bow Pins, Emery, Corkscrews, Thermometers, Dog Collars, Pruning Shears, Fish Lines and Hooks, Pencils, Kettle Ears, Iron Burrs, Hook and Eyes, Bicycle Lamps and Cyclometers, Wood Fancy Planes, Meat Cutters, Nut Crackers, Curling Tong and Waving Irons, Can Openers, Tracing Wheels, Meat Hooks, Lemon Squeezers, Halter Chains, Plumbs and Levels, Stair Rods, Wood Bench Screws, Boring Machines, Bung Spouts, 60 M Eley's Job Shells No. 12, Sash Weights, Night Latches, Rim and Mortise Locks, Rim and Mortise Knobs, Escutcheons, Keys, Butts, Lock Staples, Thumb Latches, Store Door Handles, Barn Door Latches, Door Springs, Knob Spindles, Spring Hinges, all kinds Door Bolts, Door Chains, Push and Letter Plates, Door Bells, Bell Cranks, Door Buttons, Sash Lifts, Sash Fast, Shutter Bars, Cupboard Catches and Turns, Sash Supports, Hand Rail Brackets, Shelf Brackets, Flower Pot Brackets, Hand Rail Screws, Foot Scrapers, Boot Jacks, S. D. Sheaves, Axle Pulleys, Drawer Pulls, Gate Latches and Hinges ; Chandelier, Ceiling, Bird Cage, Lamp and Coat and Hat Hooks ; Shutter Knobs, Hooks and Staples, Chest Handles, all kinds Pulleys, Wood Taps ; Pad, Chest, Till, Cupboard, Desk Locks ; Casters, Brass Hooks, Pole Ends and Rings and Brackets, Oil Cloth Binding, Stair Buttons, Curtain Pulls, Picture Hooks, Blind Hinges, Transom Lifters, Chisels, Gouges, Augers, Car Bits, Striking Hammers, Blacksmiths' Hammers, Masons' Hammers, Brick Hammers, Machinists' Hammers, Clamps, Nails, Churns, Spikes, Steel Horse Shoes, Tug and Trace Chains, Lanterns, X Cut Saws, Pumps, Nuts and Washers, Hinges, Anvils, Vises, Asbestos Packing, Rubber Packing ; etc., etc.

Also Plumbers' Supplies, Tinware, and Cutlery.

It will pay any Hardware dealer in Canada to visit Toronto and inspect this stock.

Orders filled as received, and to extent of stock.

Goods are all sampled, and easily inspected.

Come at once, if you want Bargains.

H. S. HOWLAND, SONS & CO.

TORONTO.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

A LEBLANC, general merchant, St. Jean l' Evangeliste, Que., has assigned.

George Watson, tinsmith, Petrolea, Ont., has assigned to Chas. Egan.

T. Roux, general merchant, Plessisville, Que., has effected a compromise.

Assignment has been filed by Provost & Fleury, hardware dealers, Montreal.

The National Enameling Works (F. S. Brooke, prop.), Toronto, has assigned.

J. A. Poulin, general merchant, St. George East, Que., has effected a compromise.

Elisha Furry, general merchant, Humberstone, Ont., is offering 33c. cash on the dollar.

J. E. Whittaker & Co., stove dealers, etc., St. John, N.B., are offering 50c. on the dollar.

A. J. Kemp, tinware and stove dealer, Colborne, Ont., has assigned to Thornton Huyck.

Jacob Rodolphe, hardware dealer, St. Henri de Montreal, has assigned to Lamarche & Benoit.

Charity Smith, general merchant, Port Colborne, Ont., has assigned to R. Mathews, of the same place.

Lapointe & Co., general merchants, The Brook, Ont., have compromised at 40c. cash on the dollar.

H. L. Morphy & Co., general merchants, Forest, Ont., have assigned to J. C. Burt, and a meeting of the creditors will be held on the 14th inst.

Osborne St. V. Ross, general merchant, Mission City, B.C., has assigned to Fred J. L. Tytler, and a meeting of his creditors has been called for the 15th inst.

PARTNERSHIPS FORMED AND DISSOLVED.

Kelly & Marshall, hardware dealers, Orangeville, Ont., have dissolved, each continuing.

Broderick & Sherlock, tinsmiths, Niagara, Ont., have dissolved, Charles Sherlock continuing.

Hewson & Sharpe, hardware dealers, etc., Jarvis, Ont., have dissolved. James Hewson continuing.

Hillhouse & Jelly, hardware dealers, Shelburne, Ont., have dissolved, W. A. Hillhouse continuing.

Joseph Townsend and Edward Quirk have registered as partners under the style of Townsend & Quirk, blacksmiths, Halifax.

Thomas Bellehumeur and Gaudias Bechard have registered partnership under the style of Bechard & Bellehumeur, saddlers, Montreal.

SALES MADE AND PENDING.

Begg & Co., general merchants, Blind

River, Ont., have been succeeded by McGauley & Co.

John Wynn, wagonmaker, Brussels, Ont., is advertising his business for sale.

Chas. Willetton, harness dealer, Cannington, Ont., has sold out to G. H. Williamson.

The business of the estate of Wm. Julius, blacksmith, 150-Mile House, B. C., is offered for sale.

The stock of the estate of J. A. Woodward, general merchant, St. Williams, Ont., has been sold.

The assets of D. E. Morin & Co., general merchant, Notre Dame du Lac, Que., are advertised for sale on the 16th inst.

Geo. Paterson, general merchant, Wakefield, Que., has sold out his branch at St. Cecile de Masham.

CHANGES.

Peter McSweeney has opened a general store in Amherst, N.S.

H. Bolan has started up a general store in St. Cecile de Masham, Que.

J. K. Lennan, general merchant, Minnedosa, Man., is giving up business.

The Dominion Steel and Iron Co., Halifax, N.S., is seeking incorporation.

J. Y. Morton, hardware dealer, Brantford, Ont., has sold out to Alex. Ballantyne.

J. S. Williams, hardware dealer, Picton, Ont., has been succeeded by J. D. Burns.

E. E. Turner, general merchant, McGregor, Man., has sold out to H. Holmes.

P. W. Martin, general merchant, McGregor, Man., has sold out to S. and W. Little.

Donkin & Co., harness dealers, Shelburne, Ont., have been succeeded by W. P. Matthews.

B. M. Frederick, general merchant, Campbellford, Ont., has been succeeded by White Bros.

The Smiley Hardware and Dry Goods Co., Limited, Otterville, Ont., has been incorporated.

Joseph Rivers has been succeeded by George C. Manners as harness dealer in Teeswater, Ont.

Jacob Conrad, sr., hardware and tinware dealer, Waterloo, Ont., has been succeeded by Conrad Bros.

H. T. Bragdon & Co., hardware dealers, Columbia, B.C., have removed to Republic, Washington, U.S.

G. W. Williamson, harness dealer, Beaverton, Ont., has been succeeded by Williamson & MacNabb.

Robert & Landry intend commencing business as general merchants in Thetford Mines, Que., on May 1.

Geo. J. Crowdy has registered as proprietor of James Hutton & Co., iron, steel and hardware dealers, Montreal.

Hy. W. De Courtenay has registered as proprietor of H. W. De Courtenay & Co., iron and steel merchants, Montreal.

Elica A. Meagher, wife of David Hebert, has registered as proprietress of S. Hebert, general merchant, Drummondville, Que.

DEATHS.

Theophile Leclerc, tinsmith, Hebertville, Que., is dead.

Emery and Hardware Specialties

Hamilton, Ont. **COOKE HARDWARE CO.**

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

PRIEST'S CLIPPERS

Largest Variety, Toilet, Hand, Electric Power **ARE THE BEST.** Highest Quality Grooming and Sheep-Shearing Machines. **WE MAKE THEM.**

SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.

McLaskill, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

Size,
3/4-inch.



Cheapest
IN THE
WORLD.

J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet

Made entirely of Metal, and Ventilated.

Designed for dwellings and places where water closets cannot be used.

Price, \$15.00

Write for circulars and trade discounts.

16 Queen St. East, TORONTO.

Headquarters for Builders' Castings, Sash Weights, etc.

THE TORONTO FURNACE AND CREMATORY CO., Limited

CHARCOAL IRON FOR TINPLATE.

AN exchange brings up that frequently discussed topic, the manufacture of charcoal plate for tinning. It admits the much greater cost of charcoal plate compared with that made from Bessemer, but states that its high price would not deter it from being used for special purposes where ductility is demanded. The fact is a certain amount of so-called charcoal iron tinplate has always been upon the market, and the present status of this material is rather interesting. The old distinction between charcoal and coke plate meant something when the former was made from refined charcoal pig iron worked in a knobbling fire, and the latter was made from the ordinary coke pig iron. But with the development of Bessemer steel, charcoal iron was pushed aside on account of its greater cost. Tinplate manufacturers, however, kept up the old distinction, although in most cases "charcoal" merely means a plate with a heavier coating than that given the "coke" plate. Several firms, however, still claim to make plates from genuine charcoal iron, although their claims have been questioned.

Of course the one great reason why charcoal plate is not used more extensively for tinning is its high cost. The knobbling process is used in but one mill in the Pittsburgh district and that is employed in manufacturing tube material which brings a very high price. To make the old charcoal plate the knobbling fire is a necessity, and would be an additional expense even were the cost of charcoal pig no greater than that of Bessemer. According to a recent announcement an effort is being made by the Ashland Iron & Steel Co., of Ashland, Wis., to produce charcoal pig at a cost of about equal to that of coke iron, by reducing the cost of charcoal. The Zwilling method of car-

bonization, invented by Dr. Leopold Zwilling of Vienna, Austria, is to be used. This is said to yield a hard charcoal containing 88 per cent. carbon, besides saving the by-products. But the feasibility of this plan remains to be demonstrated. It is more likely that the demand for a better quality of tinplate will lead to an increasing use of open-heart steel, and charcoal plate may come in later, when its cost is greatly reduced, or tinplate users want something still better than open-hearth steel.—Tin and Terne.

WINNIPEG CITY TRAVELERS DINE.

The Winnipeg City Travelers' Association held their fifth annual "At Home" in Unity Hall on 27th ult. The reunion was a very enjoyable event, bringing together

about fifty of the most energetic commercial men of the prairie city.

Mr. J. H. Dickie presided as chairman, while Mr. J. Mouat acted as vice-chairman.

The company was seated at nine o'clock at a bountifully laden board, and it was well into the morning before "Auld Lang Syne" concluded one of the best evenings the association ever enjoyed.

At the conclusion of chairman's remarks the toast to "The Queen" was proposed in the customary loyal manner; Mr. Jno. Horne leading in "God Save the Queen," and "Rule Britannia."

The chairman proposed the toast "The City of Winnipeg," which was ably responded to by Ald. J. W. Horne and Mr. Jno. Mouat.

The time honored toast "The Ladies," was handsomely responded to by six of the smartest young men in the crowd.

Before the gathering broke up, one and all agreed that the meeting was one long to be remembered.



We want every dealer to get our Counter Catalogue of Tires and Sundries.

Also our proposition.

We also want every dealer on our mailing list.

Goodrich - Reflex Single Tubes do not leak.

G. & J. Detachables are easy to put on and take off.

Goodflex Goods are good goods.

American Tire Co., Limited,
166 King St. W., Toronto.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, March 10, 1899.

HARDWARE.

BUSINESS in general hardware has been active on the whole, and the remarkable buoyancy in staple values continues as pronounced as ever. Barbed wire is firm at the rise, and plain wire is stiff. Inquiry for wire nails is quite active, and traders also manifest a marked desire to anticipate any possible advance in cut nails by ordering pretty freely now. Values on bolts have been advanced all round, while miscellaneous wire nails, other than standard gauges, are higher than they were. Altogether, the volume of trade is quite heavy, and the outlook very promising.

BARBED WIRE—There has been no further change in barbed wire since last report, but values are very firm on the base of \$2.55 here. Galvanized staples are stiff at \$2.90 for 100 lb., and bright do., \$2.50, with an advance for 50's.

PLAIN WIRE—Firmly held at the rise, \$2.10, with smaller sizes net; extras on

base price. American plain galvanized wire is stiff at the following: No. 9, \$2.30; No. 12, \$2.50, and No. 13, \$2.60.

FINE STEEL WIRE—Fairly active, as follows: No. 17, \$5; No. 18, \$5.30; No. 19, 6.30; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17.

WIRE NAILS—There is an active demand for wire nails, and values are firmly held here at \$2.30 for car lots, and \$2.35 for smaller quantities.

CUT NAILS—There is a good inquiry for cut nails, and traders, generally, manifest a strong desire to anticipate any possible advance in the price of these. The base is still \$1.75 f.o.b. here.

HORSE NAILS—In moderate request and steady, with discounts 50 per cent. on Standard and 50 and 20 on Acadia brand.

HORSESHOES—A moderate trade is passing in these. We quote: Iron shoes, light and medium pattern, \$3.15; snow shoes,

\$3.40; steel shoes, \$4.50, and new light pattern, all sizes, \$3.35; toe weight, \$5.50.

SCREWS—Steady, with a good inquiry. Discounts are as follows: Flat head bright, 85; round head do., 77½; flat head, brass, 77½; round head, brass, 70. Machine screws, iron and brass, flat head, discount 20 per cent.; round head, 15 per cent.

BOLTS—Values are advanced all round on these, and brisk business is noted. Discounts are: Carriage bolts, 5-16, and under are now 60 and 15 per cent. off list; ¾ and larger, 62½. Machine bolts, all sizes are 60 and 15; coach screws, 75 and 10, and sleighshoe bolts, 80 per cent. off list.

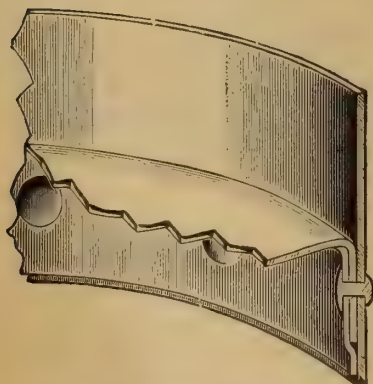
RIVETS—Steady, with discounts 65 per cent. on black and tinned, and 37½ on copper rivets.

CORDAGE—While raw material exhibits a firm tendency, there has been no change in the cordage market here. Inquiry is fair the following: Sisal, 9¼ to 9¾ c. for 7-16 and upwards, and manila, 10¼ to

MILK CAN TRIMMINGS

BROAD HOOP PATTERN

The Strongest Bottom Made.



Cut of section of bottom.

Inner band ¼-inch above the outside bands.

Cannot tear away.

Nothing to wear away.

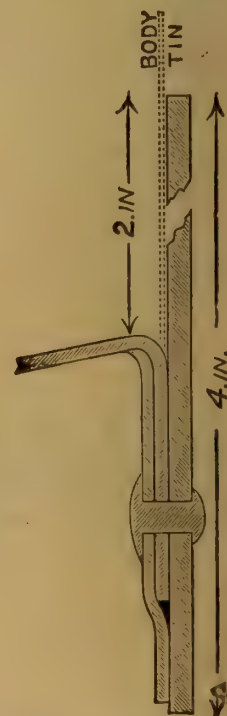
Nothing to break.

No place for dirt to lodge.

The body tin can be inserted 3 16-inch into cavity between bottom and outside band.

Solder cannot crack.

Bottom cannot spring.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The **McClary Manufacturing Company**

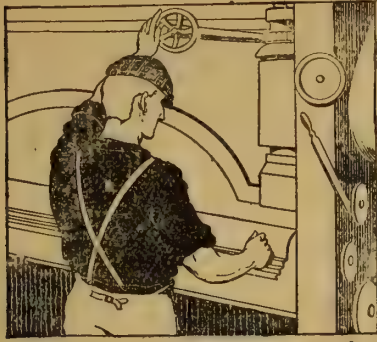
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



The only galvanized iron, that is as good as galvanized iron can be, is Apollo.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Manufacturers of Limited

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

10 3/4 c.; smaller sizes, 1c. advance on these figures

MISCELLANEOUS WIRE NAILS—All wire nails, other than standard gauges, are now quoted at 75 and 10 per cent. off the miscellaneous list.

GREEN WIRE CLOTH—Moving well on forward account, with values firm.

HINGES—Continue steady, heavy T and strap being held at \$4, and light ditto, 70 and 5 off the list.

SHOT—In good inquiry and steady at 6c. for ordinary, and 6 1/2 c. for chilled.

CUTLERY—Quiet and steady.

CEMENT—Without change. We quote : English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Dull, but steady, at \$18.50 to \$24.

METALS.

The firm feeling in all iron and metals continues and further gains are noted, the advance this week being in material that did not respond last week. Notable in this respect are coil chain, hoop iron, iron pipe of all sorts, galvanized iron, sheet zinc, tire steel, sleighshoe steel and bar iron.

PIG IRON—The firmness in pig iron continues, and stocks are in small compass here. No. 1 Hamilton iron has been placed at \$17, and, while round lots are quoted at \$16 to \$16.50, sellers are few. Scotch pig is stiff, as the supply of it is exceptionally light, at \$21 to \$21.50.

BAR IRON—There has been another advance in bar iron, car lots now being held 5c. higher at \$1.45, and small lots at \$1.50.

HOOP IRON—There has been a sharp advance in the price of hoop iron, which is now quoted \$2.45 base.

SHEET IRON—Advices continue strong, and jobbers are stiff in their views on supplies from stock here. We quote as follows : 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Firm, at the rise noted last week. We quote : 10 to 16, \$2.60; 18 to 20, \$2.40; 22 to 24, \$2.45; 26, \$2.65; and 28, \$2.70.

SLEIGHSHOE AND TIRE STEEL—Both of these articles have stiffened another 10c. per 100 lb. on the rise noted last week. We now quote tire steel \$1.90, and sleighshoe \$1.85 base.

GALVANIZED IRON—With an active demand and small stocks, sellers here marked up prices 10c. this week, and we now quote No. 28 "Queen's Head," \$4.35 to \$4.60, and "Comet" \$4.10 to \$4.35.

INGOT COPPER—Has not exhibited much change, but we hear of orders being filled this week at 18 1/2 c.

SHEET COPPER—Unchanged, at 25c. for plain and 27c. for tinned.

INGOT TIN—Round lots have been placed

**Ingot Tin
Copper
Spelter
Pig Lead**

Close prices on carload lots.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

NO SCREWS

JUST BORE

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

at 25 ½ to 26 ½ c., and in a regular jobbing way we quote 26 ½ and 27c.

PIG LEAD—Our quotations might be shaded in the case of round lots, but for small quantities we repeat the range at 4 ¾ to 4 ¼ c. per lb.

LEAD PIPE—There is a good business doing in lead pipe, and values are firm. Ordinary, 7c., and composition waste 7 ½ c., with discounts 17 ½ per cent.

IRON PIPE—The long expected advance in iron pipe has materialized, values being advanced 25 to 60c. We quote: Black pipe, ¼-inch, \$2.70; ¾-inch, \$2.70; ½-inch, \$2.45; ¾-inch, \$2.95; 1-inch, \$4.20; 1 ¼-inch, \$5.40; 1 ½-inch \$7.10, and 2-inch, \$9.60. Galvanized, ¾-inch, \$5.25; ½-inch, \$5.50; ¾-inch, \$6.25; 1-inch, \$8.50; 1 ¼-inch, \$11.75; 1 ½-inch, \$14.50, and 2-inch, \$19.50.

CANADA PLATE—Inquiry for Canada plate is active and values point still higher, as stocks are remarkably light. We quote: 52's, \$2.20 to \$2.25; 60's \$2.30 to \$2.35; 75's, \$2.40 to \$2.45; full polished, \$3.10; galvanized Canada plate, \$4.00 for 52's.

TINPLATES—In brisk demand and firmly held at the rise. We quote as follows: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Demand is fair and values firm at \$6.50 per 100 lb.

COIL CHAIN—As a result of the withdrawal of makers' prices values on coil chain have been advanced still further, the new basis being: We quote No. 6, 9 ¾ c.; No. 5, 8 ¾ c.; No. 4, 7 ½ c., and No. 3, 6 ½ c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ⅝, \$3.25; ¾, \$3.15, and ⅞, \$3.00 per 100 lb.

SHEET ZINC—With light stocks sellers this week advanced their price ½ to ¾ c. per lb., values now ruling stiff at 7 ¾ to 8c.

ANTIMONY—Quiet and steady at 10 to 11c.
SPELTER—Steady, with a fair demand. V.M., \$6.75; S.S., \$6.50.

SWEDISH IRON—Stiff, with stocks light, at \$3.75 base.

GLASS.

There is a good demand for window glass, and values are unchanged. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Makers report a satisfactory spring business being done in all departments. White lead is in very active demand, and there is a tendency to scarcity, the feeling being

that existing stocks will be exhausted long before navigation opens. Other lead products are also inquired for, especially orange mineral, which is firm in price, consequent upon short supply. Red lead is easier, as quoted last week, but zinc maintains the utmost figure quoted, and in high grades commands our full quoted price of 7c. dry, and 8c. in oil. General mixed paints are in active demand. Varnishes are unsatisfactory, prices not being at all in keeping with the existing high prices of turpentine, oil and gums. We have no changes in our published quotations, which continue as follows:

WHITE LEAD—Best brands, Government standard, \$5.87 ½; No. 1, \$5.50; No. 2, \$5.12 ½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5 ½ c.; in oil, pure, 8c.; No. 1, 6 ½ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 50c.; boiled, 53c., five to nine-barrels, 1c. less, ten to nineteen, 2c. less, and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8 ¼ to 8 ½ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37 ½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4 ½ to 5 ½ c. for colored, and 6 to 7 ½ c. for white; oakum, 5 ½ to 6 ½ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13 ½ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16 ½ c.; 1-lb. tins, 15 ½ c.

PETROLEUM.

Steady, with demand good. We quote as follows: "Crown Acme," 15 ½ c., Canadian refined, 14 ½ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, 19 ½ c.

ASHES.

There is a steady business doing. We quote: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Steady. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calf-

OAKEY'S

'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL

UNDER THE WINDING-UP ACT.

Pipe Foundry and Machine Shops For Sale.

In re The Three Rivers Iron Works Company in Liquidation.

The undersigned will sell by public auction, at the office of Kent & Turcotte, 97 St. James Street, Montreal, on Thursday, April 13, 1899, at noon, the whole of the moveable and immoveable assets of the Company as set forth in the inventory prepared herein and comprising:

Pipe Foundry, with all the necessary machinery and appurtenances in running order, Jobbing Foundry, Machine Shops, Blacksmith's Shop, Dynamos, 100 Horse-power Engine and Boiler, together with a large quantity of stores of various kinds as enumerated in said inventory. The immoveable property is described as follows:

"Une etendue de terra de quinze arpents en superficie, mesure francais, comprenant tout le lot de terre connu et designe sous le numero mil huit cent vingt trois (1823), qui contient douze arpents et quatre vingt neuf perches en superficie et dont le surplus pour former le dite etendue, savior deux arpents et onze perches en superficie seront prises dans le lot connu et designe sous le numero mil huit cent vingt deux (1822) sur les plan et livre de renvoi officiels du cadastre d'enregistrement de la cite des Trois Rivieres, comme suit: depuis la rue St. Maurice, au nord ouest, et entre la rue des Pins au nord est et la rue du Chemin de Fer de Ceinture (Loop Line) au sud ouest, en allant vers le sud est jusqu'a une distance suffisante pour former les dits deux arpents et onze perches en superficie et completer les quinze arpents de terre en superficie et renfermer cette dite partie du dit lot No. 1822 par une ligne parallele a ladite rue St. Maurice."

The land, buildings and machinery will be sold en bloc, and the stores and other moveable assets in one or more lots to suit purchasers.

MARCOTTE BROS.,

Auctioneers.

A. TURCOTTE,

Liquidator.

FOR

Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps

Everything in the stamp line.

SEND TO THE

Hamilton Stamp & Stencil

WORKS, Hamilton, Ont.



skins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Bar iron has stiffened over 5c. per 100 lb. There has been another advance in the price of coil chain.

There has been a rise of 10c. in the price of galvanized iron.

Sleighshoe and tire steel are 10c. higher than when last reported.

Hoop iron prices have jumped very sharply, being over 40c. higher than last week.

Carriage bolts, medium bolts, etc., have scored a considerable rise since last report.

The long anticipated advance in iron pipe has materialized. It ranges from 25 to 60c.

ONTARIO MARKETS.

TORONTO, March 10, 1899.

HARDWARE.

BUSINESS has gradually been getting into a more satisfactory shape during the past week. There have been an increased number of customers in the city, while letter orders, to say nothing of travelers' orders, show an increase. There has been no further change in wire nails, but the feeling is even stronger than it was a week ago, and it is quite possible that before our next issue a higher range of values will exist. Barbed wire remains as before; and in fact there is no change in any descriptions of wire. A number of the manufacturers of hardware in the United States have notified the jobbers here of the withdrawal of prices. The Canadian manufacturers of halter, dog and trace chains have advanced their prices about 25 per cent. during the past week. Hog rings are about 25 per cent. dearer. Eavetrough has been advanced nearly 13 per cent. Bicycle sundries are firm with a likelihood of an advance, on account of the higher price of raw materials. Loaded shells have been advanced 10 per cent. by the Canadian makers. A decidedly active demand has developed during the week for sap buckets, and stocks are reported to be running low. Gas stoves are also now being booked for future delivery. There is a good trade being done in screws. Bolts have been advanced, as is also noted elsewhere. Rope is quiet and unchanged. Milk can trimmings have been changed, the discount now being 25 and 10 per cent.

BARBED WIRE—The price of barbed wire remains firm at last week's quotations, namely, \$2.50 for two and four point f.o.b. Toronto; safety barbed wire, \$2.75; plain twist, \$2.50. Staples are quoted at \$2.75 per 100 lb. for galvanized, and \$2.50 per 100 lb. for bright. The price f.o.b. Cleveland, in less than carload lots, is \$2.50 per 100 lb.

Spring is a favorite time for re-decorating.

Our METALLIC Ceilings and Walls

are growing in favor for private houses, because people now realize that they unquestionably make the most durably handsome, and practically economical interior finish available.

They are easily applied, easily cleaned, fireproof, sanitary and moderate in price—and can't possibly drop off or show unsightly cracks.

We make a vast variety of artistic designs suited to every class of building.

To show them and explain their merits, is to sell them.

If you haven't already done so, write now for our catalogue and price list.



Sample Design—Plate No. 229.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

SMOOTH STEEL WIRE—There is no change, and trade is rather quiet. The base price is still \$2.30 f.o.b. factory.

FINE STEEL WIRE—Business is also quiet in this line, with the discounts unchanged at 25 per cent. factory point.

WIRE NAILS.—While there has been no further change in quotations, a stronger feeling attains in regard to prices, and it is altogether likely that there will be another advance very shortly. The base price is still \$2.50 per keg, Toronto and west, and \$2.35 east of Toronto. The demand for wire nails is fairly good.

CUT NAILS.—There is a moderate business being done, and prices are unchanged at \$1.75 per keg f. o. b. Toronto, Hamilton and London with 5c. per keg rebate.

HORSE NAILS.—Business is still quiet. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business is still only of a moderate character, with prices steady and unchanged. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax; f.o.b. Montreal, \$3.15.

SCREWS—Trade is active in this line, and prices firm and unchanged at quotations. We quote: Flat head bright, 85 per cent. off the list; round head bright, 77½ per cent.; flat head brass, 77½ per cent.; round head brass, 70 per cent.; flat head bronze, 70 per cent.; round head bronze, 65 per cent. Terms, 4 months or 3 per cent. 30 days.

BOLTS—There has been a good trade in bolts, and prices are higher, a change having been made in the discounts. We now quote as follows: Common carriage 5-16 and

under, 60 and 15 per cent.; ditto, ¾ and larger, 62½ per cent.; machine bolts, all sizes, 60 and 15 per cent.; coach screws, 75 and 10 per cent.; sleighshoe bolts, 80 per cent.; blank bolts, 60 and 15 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; bolt ends, 60 and 15 per cent.; nuts, square, 4½c.; ditto, hexagon, 5c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—There is no change to note in this line, business being fair. We quote: Carriage section, wagon box rivets, etc. (steel), 65 per cent. off the list; ditto (Norway iron) 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The market continues quiet and featureless. We quote as follows: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A fair business is being done for this time of the year, and prices are unchanged. We quote, delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—There is still but little being done. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH Business is fair at \$1.20 per 100 square feet.

POULTRY NETTING—Orders are still being booked at the discount of 50 and 5 per cent.

WARE—There is a good demand for both stamped tinware and enameled ware.

EAVETROUGHS—The advance anticipated last week has materialized, and we now quote as follows: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25. This advance is nearly 13 per cent., and the bulk of the business has yet to be done.

SAP BUCKETS—The demand during the past week has become decidedly active for these. Everyone seems to be in a hurry to get his order filled. In consequence of this demand stocks are running low. The volume of business in this line is reported by some of the manufacturers to be already 50 per cent. larger than it was for the whole of last season, and it is fully expected that the total season's trade will exceed that of last year by 100 per cent.

GAS STOVES—Orders for these have been coming in fairly brisk during the past week. A fair season's trade is anticipated.

MILK CAN TRIMMINGS—There has been an advance in the price of these, the discounts now being 25 and 10 per cent.

HINGES—There has been quite an advance in the jobbing price of screws, hooks and hinges during the past week, the quotations now being \$3.75 for 6 to 12-inch, and \$3 for 14-inch upwards. It is understood that the market for spring hinges in Canada is somewhat demoralized, jobbers quoting all kinds of prices.

HOG RINGS—The price of these has been advanced about 25 per cent. in sympathy with the cost of raw material, and they are now nominally quoted at 50c. per thousand.

CEMENT—The demand is picking up nicely. Prices are steady and unchanged. We quote in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German do., \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

Both copper and tin have been a little unsettled during the past week, although the latter took a firmer tone on Wednesday. The pig iron market is decidedly strong. Lead, according to the latest advices, is firm, and spelter rules steady. Tinplates are firm. The same can be said in regard to antimony.

PIG IRON—The market is decidedly strong, although there does not appear to be much doing.

BAR IRON—The market is strong, and makers are talking of advancing prices another \$2 per ton. In the meantime,

however, the idea as to price is still \$1.50 from factory and \$1.60 from stock.

BLACK SHEETS—Prices keep firm, and a better demand is to be noted. We still quote 28-gauge at \$2.85 per 100 lb.

GALVANIZED IRON—Trade is moderate, and an improved business is anticipated next month. We quote: "Queen's Head," 28 gauge, \$4.65 per 100 lb. American makes, 28 gauge, \$4.50 per 100 lb.; "Gordon Crown," 28 gauge, \$4.50 per 100 lb. Less than case lots 25c. per 100 lb. additional.

COPPER—The market for this has ruled somewhat unsteady during the past week, although, according to advices from outside markets, people who are in immediate need of copper have still got to pay stiff prices. Local jobbers have, however, marked their figures up this week on ingot copper to 18 3/4 to 19 1/4c. Other kinds of copper are, however, unchanged.

PIG TIN—Although pig tin has ruled somewhat unsteady in price during the past week, on Wednesday, London cables showed a better tone and figures stiffened a little in consequence. Local quotations are unchanged, "Lamb" and "Flag" still being quoted at 28c. and Straits at 27 1/2c.

TINPLATES—The market is stiff, but there has been no further change in prices. We still quote ordinary brands of charcoal at \$3.60 per 100 lb.

CANADA PLATES—Orders are being booked freely for fall delivery, and prices are being well maintained. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2.60, and all bright, \$3.10.

PIG LEAD—The outside markets are a little firmer, but there is no change to note, local trade being quiet, and the idea as to price is still 4 1/4c. per lb.

LEAD PIPE—An increase in trade in this line is to be noted, plumbers beginning to order more freely. Prices are unchanged. We quote: Ordinary pipe, 7c.; waste, 7 1/2c. Discounts, 17 1/2 per cent.

IRON PIPE—There has been quite an advance in iron pipe during the week, and we now quote: Wrought pipe, per 100 feet, 1/4, 3/8 and 1/2 inch, \$2.65; 3/4 inch, \$2.95; 1 inch, \$4; 1 1/4 inch, \$5.30; 1 1/2 inch, \$6.90; 2 inch, \$9.10. Galvanized pipe: 1/4 to 3/8 inch, \$5; 1/2 inch, \$5.30; 3/4 inch, \$5.90; 1 inch, \$8; 1 1/4 inch, \$11.20; 1 1/2 inch, \$13.20; 2 inch, \$18.35. Cast soil, 2, 3, 4, and 5 inch, 60, 10 and 5 per cent.

RANGE BOILERS—The price of these has been advanced 50c. during the past week. There is a good trade being done at the advanced figures. We quote: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

FOR SALE.

FOR SALE—HARDWARE AND FURNITURE business in village of 500 population on main line C.P.R., or will take in a tinsmith with \$1,000 capital as partner. New stock. No opposition. Full particulars upon application. Address, Geo. W. Ludlow, Dryden, Ontario. (12)

SITUATION WANTED

WANTED—SITUATION BY YOUNG MAN (20), with 4 years' experience in Hardware Store in lumbering district. Box B., HARDWARE AND METAL. (10)

SITUATIONS VACANT.

WANTED—BOOKKEEPER WHO UNDERSTANDS Hardware and will assist in store. Must be total abstainer, with good references. Apply, stating salary, Box 450, Regina, Assa. (10)

PLUMBER AND TINSMITH WANTED—Must understand plumbing thoroughly. Must be sober. Single man preferred. Apply to J. & T. M. Piper, Fort William, Ont. (10)

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It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.
Spramotor Company,
London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,
W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

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Mention this paper.

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GARDNER BROS. & CO.

TINNED IRON—We quote: 30 x 72 (24 gauge), 6c. per lb.; cut sizes, 5¼c. per lb.

COIL CHAIN—There has been a further advance in the price of coil chain, and we now quote as follows: ¼ in., \$6.50; 5-16 in., \$4; ¾ in., \$3.60; 7-16 in., \$3.40; ½ in., \$2.35; ⅝ in., \$3.15; ¾ in., \$3.05. There is a fairly good business being done.

SHEET ZINC—Trade is fair, business being particularly good with the manufacturers. We quote: 5-cwt. casks, 8c. per lb.; part casks, 8¼c. per lb.

ZINC SPELTER—There is not a great deal being done. Prices are unchanged at 7¼ to 7½c. per lb.

SOLDER—Is quiet and steady. We quote: half and half, 16¼ to 17¼; refined, 16¼ to 16½; wiping, 15¼ to 16.

ARTIMONY—Continues firm and unchanged at 11 to 11½c. per lb.

PAINTS AND OILS.

Generally speaking, business is decidedly brisk. Painters' sundries are unusually active. White and red leads are moving nicely at firm prices. There has been a great demand for linseed oil, which has been advanced 1c. this week. Turpentine stocks are very light, and an advance of 1c. is noted this week. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; 50c. per 100 lb. in 5-barrel lots. Gilders' whiting, 80c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 52c.; boiled, 1 to 4

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barrels, 55c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 69c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

There is still a good demand from stock. The taking of import orders has been discontinued. No change has been made in the stock price. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

All metals but iron have advanced. Lead is ¼c. dearer; zinc, ½c.; all copper and brass, 1 to 2c. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 42½c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 8c.; heavy yellow scrap brass, 10c.; heavy red scrap brass, 11c.; scrap lead, 2¾c.; zinc, 3c.; scrap rubber, 5c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

The market for both alsike and red clover is easier, 25c. decline being noted for both. Red clover is now quoted at \$3 to \$3.25, and alsike at \$2.50 to \$3.75, at outside points, though 25c. more might be had for extra choice lots.

PETROLEUM.

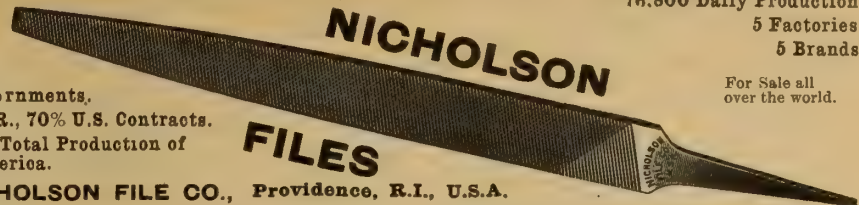
A good demand is noted at steady prices. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

COAL.

There is still a famine of small sizes. Prices are unchanged. We quote anthracite

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5 Brands.

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Established 1773.

at Buffalo and bridges as follows: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

The discount on bolts is lower.

Local quotations on coil chain are higher.

Hog rings have been advanced 25 per cent.

The prices of linseed oil and turpentine have advanced 1c.

Quotations on iron pipe, both wrought and galvanized, are higher.

The discount on milk can trimmings has been changed to 25 and 10 per cent.

The Canadian makers of loaded shells have advanced their prices 10 per cent.

Halter, dog, and trace chains have been advanced 25 per cent. by the makers.

Scrap copper and brass have advanced 1 to 2c., lead ¼c., zinc ½c., rubber 1c. this week.

PERSONAL MENTION.

Mr. W. H. Evans, Toronto manager of The Canada Paint Company, Limited, left for British Columbia on Wednesday. He will be away from Toronto for a couple of months.

Mr. A. J. Somerville, president of The Ontario Lead and Barb Wire Co., Limited is in Atlantic City this week.

Editor HARDWARE AND METAL,—Referring to page 26 of your issue of March 4, under the heading "Green Wire Cloth," we note a clerical error. You give the price at \$1.02 per 100 square feet, instead of \$1.20. The actual selling price of green wire cloth now is \$1.25 4 months, or \$1.20 net cash. There is no scarcity of wire cloth in this market, the advance in price is owing entirely to the heavy advance in price of raw material.

THE B. GREENING WIRE CO., LIMITED.
Hamilton, March 9, 1899.

[REMARKS: The error was entirely due to the transposition of the figures "0" and "2" by the printers.—EDITOR HARDWARE AND METAL]

A VIEW OF THE IRON MARKET AT LARGE.

THE following interesting article is from The Iron Trade Review of the 9th. inst. :

The advances in iron and steel continue and \$1 a ton added to the price of pig iron seems now to startle the trade less than a 25 cent advance six months ago, while \$2 more on finished material is an easy possibility between any two days. Leaders in the trade still talk of the dangers of such a movement, but with legitimate demand of the proportions developed week by week, there is no longer any serious thought that it can be stopped. The ore producers of Lake Superior were moved by considerations of the highest validity—the preservation of our foreign trade and the necessity of averting any semblance of a boom—to put their prices only fractionally above last year's. Meantime the pig iron advance has been ten times that of ore, and steel billets have reached a point \$10 above the price of Bessemer pig iron. And now the Central Western producers of Bessemer pig iron who are meeting at this writing to decide on what basis they will do business for the second half of the year, are hearing the suggestion that they are looking to, to save the trade from disaster. But with the ore men's experience in mind, and a full knowledge of the conditions in steel and in foundry iron, the indications are that they will not attempt the role of philanthropists.

Conservative figures predict a basis of \$13.50 to \$14 for round sales of Bessemer iron, third and fourth quarters; a more excitable element goes even higher. It is known, however, that large steel works will make considerable purchases of iron as soon as the price is determined. These latter concerns already know the destination of a part of their output for their second half, and the rate at which plates, sheets, tinplate, bars, structural steel and wire mill products are going into consumption, even before the open-season demand has set in, promises greater things than the present movement has yet suggested. The crops of the year will be an important element in determining the course of the market from midsummer on, but the bulk of the contracts for the second half will be made before they can become a definite factor.

It is significant, as showing how deep and broad is the wave of prosperity now sweeping over the iron trade, that a large number of foundry buyers scattered over the country are seeking iron for delivery in the next two or three months, because of the unexpected output of their plants. The difficulty of taking care of such requisitions is increasing, in spite of the policy of foundry furnaces for some time back of

reserving a share of their probable output for just such emergencies.

Additional foundry furnace capacity will be available later, but not much before the middle of the year and then nothing large. In Virginia new ore operations must be started, and in the east New York and New Jersey will be drawn upon more than in several years. The Pittsburgh market shows that all calculations as to the capacity of the steel plants to cope with the demand have gone quite astray. Producers who sold freely at the low prices, to hold the situation within bounds, find themselves now unable to take on anything more, and the result is that the condition it was attempted to avert has come with a rush.

Billets are \$23.50 to \$24, or within \$1 a ton of the highest point touched in 1895. The contract basis for the second half of the year has not yet been determined; but with Bessemer pig iron within the neighborhood of \$14, valley steel is certain to be beyond \$20.

A surprising development in tinplate is that while The American Tin Plate Co. has refrained from quoting, the demand for plates in second hands has carried prices 25c. a box above the last quotation from Chicago, or about \$3.75 and \$3.80 a box, an advance of \$1 over the prices of last fall. Imported tinplates have advanced also in the past three months. The wire and wire nail markets continue active, and mills are driven to keep up.

The leading wire interest, unlike most producers, is realizing steadily on the new prices, the policy followed for some months of selling only for quick delivery saving it from being loaded up with low-priced contracts. In connection with consolidation movements, the acquisition of The Shoenberger Steel Co. by The American Steel and Wire Co. is the most important development. Wage advances are general, and, while the body of skilled workmen in the amalgamated association do not get the benefit of them, the business of the next few months, as higher-priced material moves out of the mills on the termination of old contracts, will establish a higher basis for next year.

EXPORT TRADE IN WOOD BOARD.

It is quite possible that an export trade in wood board may be developed.

One factory in Canada, the other day, received an inquiry from a large soap manufacturing firm in England for 2,000 tons, but, through press of business at home, it was unable to fill the order.

It is to be regretted in a way, that this firm could not fill the order, but perhaps there are others who are not so busy with the home trade that they can.

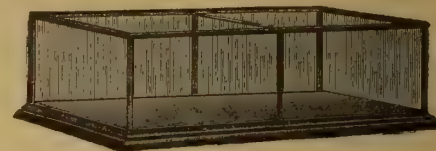
Perhaps the High Commissioner's office in London can be induced to ascertain what the possibilities for doing an export trade in wood board are. Then, no doubt, the factories in Canada will make the necessary provisions for catering for this as well as for the home trade.

CATALOGUES, BOOKLETS, ETC.

BICYCLE ACCESSORIES.

One of the most complete catalogues of bicycles and bicycle accessories, component parts, etc., is that which has just been issued by Rice Lewis & Son, Limited. It contains eighty pages of illustrations and reading matter, showing every article appertaining to the bicycle. The information contained in the catalogue is unusually complete, and no hardwareman who handles bicycles should be without a copy of it. There are several illustrations of bicycles, reproduced from blue prints, giving the measurements in the different parts of a bicycle. This is decidedly interesting. There are tables giving the price of weldless steel tubing as per English and American lists, also bicycle gear table. About half a dozen pages at the back of the book are devoted to sporting goods supplies, which, of course, adds to the interest of the catalogue.

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HEATING AND PLUMBING

TORONTO BUILDING PERMITS.

THE following building permits have been issued in Toronto: To R. P. Vaughan, for a two storey and attic brick building, at 124 Madison avenue, cost \$4,000; Edwin S. Reade, for a two-storey and attic brick dwelling, at 126 Madison avenue, cost \$4,000; M. R. Gash, for a brick dwelling at 95 Spadina avenue, to cost \$4,000; R. M. Ogilvie, for a two-storey and attic brick house on Walmer road, to cost \$4,000 (R. M. Ogilvie is architect of the above four houses); R. Watkins, for alterations to 362, 364, and 366 Ontario street; The McIntosh Granite and Marble Co., for a one-storey workshop and one-storey office at 1119 and 1121 Yonge street, Toronto.

PLUMBING AND HEATING NOTES.

W. E. Shantz is retiring from The Sachs Plumbing and Heating Co., Berlin, Ont.

Alphonse Bastien and Amedee Sigouin have registered partnership under the style of Bastien & Sigouin, plumbers, Montreal.

Vincent & Dufresne, architects, etc., Montreal, have dissolved.

Marie C. Cloutier has registered as proprietress of the firm of J. C. Thibault & Co. plumbers, Danville, Que.

The building for the Bank of Commerce, which will be erected in Winnipeg this summer, will, at least as far as architectural design is concerned, be something new in that city. It will have a solid stone front constructed in the classical style, reminiscent of Grecian architecture, and will certainly be an ornament to Main street.

THE TORONTO M.P.A. BANQUET.

The banquet committee of the Toronto Master Plumbers' Association, of which Mr. Joseph Wright is chairman, met this week.

It was decided to hold their banquet on Friday, the 31st inst. Invitations will be sent to the branches of the National Master Plumbers' Association at Hamilton and London.

A PLUMBER'S MARVELOUS ESCAPE.

A plumber employed in a house in course of erection in Woodhouse, Leeds, met with a very remarkable experience recently. He was warned of the risk, in consequence of the frost, of ascending to the roof to continue his work of "flashing" the chimney, but insisted on going up, and slipped on the

roof-board. The supports gave way, and he slipped down the roof with great rapidity, falling a distance of more than 30 feet head first into a large tank containing several feet of freshly-washed lime. On being extricated from his unpleasant position, the plumber was found to be severely burned about the face, and particularly the eyes, but, beyond this and the shock, he was fortunately uninjured. Had he fallen anywhere but in the tank, the result, it is believed by those who witnessed the affair, would have been fatal.

PLUMBING AND HEATING CONTRACTS.

A. Welch, tinsmith, etc., Queen street west, Toronto, has the contract for fitting the works of The Carling Brewing Co., Simcoe street, with hot-water boiler from Clare Bros., Preston.

The Bennett & Wright Co., Limited, have contracts for the heating and plumbing of the new factory building for The T. Eaton Co., Limited; of the residences for Edmund Burke, Rosedale; C. J. Gibson, Tyndal avenue; Prof. Vanderlinde, Tyndal avenue; Dr. Ryerson, College street; also the contracts for heating some large poultry houses at Dentonia Park Farm, East Toronto, for W. E. H. Massey.

John E. Knott has the plumbing contract for four houses in Mission avenue for Mr. DeLaplante.

SANITARY DRY-EARTH OLOSETS.

The new sanitary dry-earth closet advertised by The Toronto Furnace and Crematory Co., 16 Queen street east, Toronto, in this issue is being received with great favor by the trade. It fills, at a modest price, a long-felt want in country dwellings, summer resorts, sanitariums and all places where water closets cannot be had. Full

information can be had by writing the company who are offering liberal inducements to active agents. The trade should look into this.

AS TO CUT PRICES.

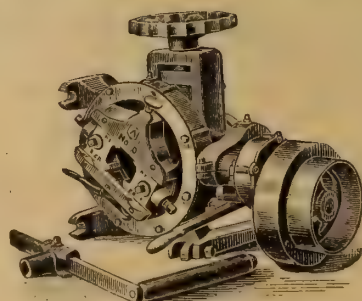
When passing down one of the city thoroughfares, says Stoves and Hardware Reporter, the other day the writer saw a store window displaying a placard which read: "Watch this window for cut prices." Fortunately it happened to be frozen over at that moment so that it was impossible to tell just how far this merchant had forgotten his self-respect and his duty towards others to flaunt such a sign in people's faces. This principle in business is one which cannot be too deeply deplored, both for its own as well as for the sake of others. What shortsighted policy prompts the merchant to thus work against his own interest and bring about a kind of a universal mercantile slaughter it would be rather difficult to define. Of course there are, we are sorry to say, many people who are equally unscrupulous in taking advantage of such offers. It does not rest with them to decide for the retailer whether he shall maintain a certain price standard. The public is both inconsiderate and conscienceless in presuming upon such reductions. People of independent means unhesitatingly seek to economize in the purchase of one thing in order to indulge in some extravagance. Therefore, no thought or care should be expended on attempting to inculcate into the public mind that a certain amount of profit is absolutely necessary to the maintenance of the business. For this reason, it would be well for each merchant to so keep up the standard of prices that no opportunity is afforded for the buying portion of the public to do any bull-doing.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

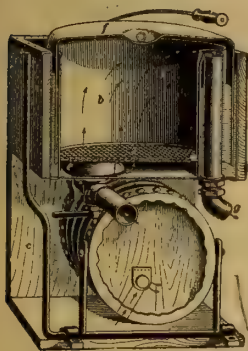
We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.



PLUMBERS!

protect yourselves
by testing your work
with the simplest and
most reliable Smoke
Test.

Send for Circular

The
**JAMES MORRISON
BRASS MFG. CO.**
Limited

Toronto.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

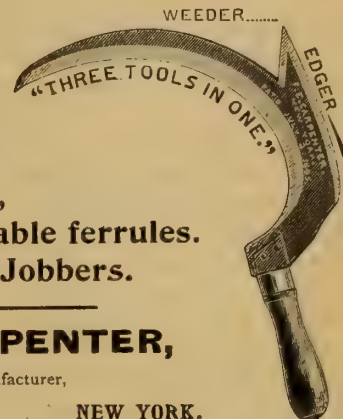
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



THE ..

DOMINION RADIATOR COMPANY

LIMITED

Dealers

in the most complete line of

Steamfitters' Specialties

HEAD OFFICE and WORKS:

340 to 376 Dufferin Street

TORONTO, ONT.

Safford Steam and Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
Cast and Malleable Fittings
Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.



THE PLUMBER'S FRIEND?

The rat has been called the plumber's friend, although undoubtedly the enemy of plumbing, writes J. W. Hughes in Metal Worker. What between his burrowing into and out of drains, gnawing waste and water pipes, getting drowned in cisterns, and last, but not least, departing this life in all sorts of awkward and out-of-the-way places, and being dead yet speaking in a most offensive way (to the nostrils), he is constantly in evidence, making a good deal of work and giving rise to a good deal of talk, some of it of the kind called hard.

My last experience with "the friend" was peculiar to a degree. A hot-water heating apparatus was tested and found to work perfectly in all its parts, but the furnace developed what one of my customers called a "diabolical diabetes," necessitating the pulling down of the furnace and fitting a new fire pot. The foundryman, of course, promised the pot in a day or two, and as is sometimes the case, the day or two developed into a week or two. In the meantime the mains were left disconnected and open, ready to reconnect. This was in due time accomplished, apparatus filled and fired, when, lo, and behold! the parlor radiator positively refused to radiate for the very good reason that there was no circulation in it. Everything was tried, from hammering and shaking to swearing at it, but all in vain. "It worked before; nothing has been changed; why won't it heat?" was the question.

As a last resort the mains were disconnected at the furnace and taken apart for a considerable portion of their length, when, inside a reducing tee forming the branch to the offending coil, was found all that was mortal of what once had been a healthy and enterprising rat. He had undoubtedly found the open main and started in to explore, and got jammed in the tee, and like many another explorer paid the penalty of pushing too far into unknown territory. This is the most peculiar "rat" experience that has come to my knowledge, and was costly. Perhaps some brother fitter can go one as good or better.

ADVANCING PRICES IN METALS.

The following, from the daily market report of the New York Metal Exchange, indicates the relative positions of metals in New York on the last day of February, 1899, and in the preceding three years:

	1899	1898	1897	1896
Pig Iron Warrants...	9.25	6.55	6.75	.....
Copper.....	17.87½	11.67½	12.00	11.07½
Tin.....	24.50	14.15	13.55	13.37½
Lead.....	4.35	3.80	3.35	3.22½
Spelter.....	6.50	4.20	4.05	4.05

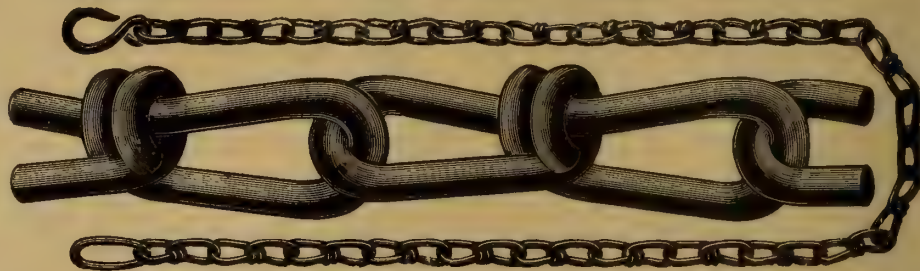
Warnock's



Axes, Edge Tools and Lumbering Tools
are superior to anything else made or used in
Canada. Always buy "Warnock's."

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

ACETYLENE GAS

Perfect Light Perfect Safety

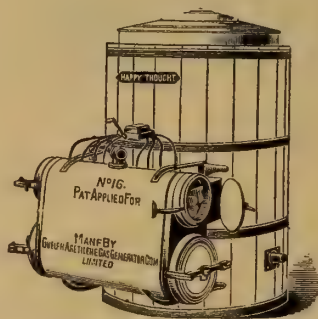
Our Machine is Automatic. Safe.

Sold only through the local Hard-
ware and Plumbing Trades, etc.

No Peddling.

Write Us.

THE GUELPH ACETYLENE GAS CO. Limited
GUELPH, ONT.



INTERCOLONIAL RAILWAY.

TENDERS FOR GRAIN ELEVATOR AND WAREHOUSE.

Separate Sealed Tenders, addressed to the undersigned, and marked on the outside "Tender for Grain Elevator," or "Tender for Warehouse," as the case may be, will be received at this office until 5 o'clock p.m., eastern standard time, on SATURDAY, MARCH 25th, 1899, for the erection of a Grain Elevator at St. John, New Brunswick, and for the erection of a Freight Warehouse on the new Terminal Wharf now under contract at that place.

Plans and Specifications may be seen and Forms of Tender may be obtained on and after the 28th day of February, 1899, at the Office of the Chief Engineer of the Intercolonial Railway, at Moncton, N.B., and at the Engineer's Office, St. John, N.B.

In the case of Firms, the Tender must bear the actual signature of the full name, the occupation and residence of each member of the firm.

All the Conditions of the Specifications, including those requiring a security deposit with each Tender, must be complied with.

Tenders must be made on the Printed Form supplied. The Department does not bind itself to accept the lowest or any Tender.

D. POTTINGER,

Railway Office, Moncton, N.B., Feb. 27th, 1899. General Manager. (11)

The Toronto Patent Agency

Limited

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Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
 Tinplate, Tinned sheets, Terne Plates, Canada Plates Gal-
 vanized sheets, Imitation Russia Sheets Black Sheets—Iron
 and Steel—Hoops and Bands, Proved Coil Chain, Brass and
 Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

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THE MCKINNON BUILDING
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... TORONTO

Telephone 689.
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Headquarters for...

Oil and Artesian Well
 Pumps, Casing, Tubing
 Fittings, Drilling
 Tools, Tables, etc.

ARE YOU A BUYER OF

Hardware, Metals,
 Paints, Oils, etc. ?

Send us Post Card, and a copy of the latest
 issue of **HARDWARE AND METAL**, the lead-
 ing authority on these trades, will be sent to
 you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
 25 Front St. West, TORONTO
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The Portland Rolling Mills Co., Limited

Manufacturers of

Refined Bar Iron

Railway Spikes

Pressed Spikes

Nails and Tacks

"Diamond" Brand Horse Shoes

ST. JOHN, N.B.

**"JARDINE"**

**TIRE UPSETTERS
 WILL UPSET TIRES**

Some machines sold as Upsetters will not.
 Perhaps you make as much money on the
 sale of a useless Upsetter as on a good
 one, but your customer does not. He
 don't want a machine because it is called
 an Upsetter; he wants a machine to upset
 tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
 HESPELER, ONT.**



Factory at
 Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
 being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnners' Hardware and Roofers' Supplies.

PHILADELPHIA, PA. Office and Stores,
 231 and 237 Arch Street.

STEVENS RIFLES**THE FAVORITE**

Send for our complete catalogue.

is made in three calibres

22, 25 and 32 Rim Fire

and is the best low-priced rifle made Highest quality of work
 Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
 No. 18, Target Sights— " 11.50
 No. 19, Lyman Sights— " 12.00

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
 At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
 MASS., U.S.A.

**A Hint
From You.**

One word from you about
 "Alabastine" to any house
 owner will save that house
 owner money — on his wall
 coverings. This is absolutely

proved by thousands of people right here in Canada—you
 needn't take our word for it. "A hint from you" is all that's
 needed in nine cases out of ten—the tenth man's trade prob-
 ably isn't worth having.

Church's Alabastine is the only permanent and sanitary Water
 Color Wall Covering known to science.
 Easy to apply, cold water is all that is
 needed to make it ready for use. Won't
 decay, rub off or peel. 16 beautiful tints
 and white.

**Church's
Alabastine**

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETT

DOVERCOURT
 TWINE MILLS.

1078 BLOOR STREET WEST,
 TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
 to furnish the best made goods in the market at closest prices and make
 prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,
 Cotton and Russian Hemp Plough Lines, plain and colored.
 Cotton and Linen Fish Lines, laid and braided.

Netted Hammocks, white and colored, Tennis and Fly Nets.
 Skipping Ropes, Jute, Hemp and Flax Twines.

JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.

CURRENT MARKET QUOTATIONS

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 28
Straits 0 27½

Tin Plates.

Charcoal Plates—Bright.
M.L.S., equal to Bradley. Per box. \$5 00
I.C., usual sizes 6 25
I.X.X., " 7 50

J.R. & Co.—
I.C., usual sizes 4 75 5 07
I.X., " 6 00 6 25
I.X.X., " 7 25 7 50

Famous—
I.C., " 5 00
I.X., " 6 25
I.X.X., " 7 50

Raven & Vulture Grades—
I.C., usual sizes 3 60
I.X., " 4 35
I.X.X., " 5 10
I.X.X., " 5 85
D.C., 12½x17 3 10
D.X., " 3 85
D.X.X., " 5 85

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel
I.C., usual sizes 3 15
I.C., special sizes, base. 3 25
20x28 6 75

Charcoal Plates—Terne.

Daan or J.G. Grade—
I.C., 20x28, 112 sheets 6 25
I.X., " 7 75
I.C., Orion 6 25
I.X., Orion 7 25 7 75

Charcoal Tin Boiler Plates.

Cookley Grade
X.X., 14x56, 50 sheet bxs }
" 14x60, " } 0 05½ 0 06
" 14x65, " }

Tinned Sheets.

72x30 up to 24 gauge. 0 06 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07½ 0 07½

Iron and Steel.

Common Bar, per 100 lbs 1 55
" from factory " 1 45
Reinforced " 2 20
Horse Shoe 1 65 1 70

Hoop steel, 1½ to 3 in. base,
extras for smaller sizes 2 25
Swedish " 4 00 4 25
Sleigh Shoe Steel " base 1 75
Tire Steel 1 75
Machinery 1 85 1 95
Cast Steel, per lb 0 10 0 14
Thos. Firth & Sons' Cast Steel
Russian Sheet, per lb 0 10½ 0 11
Tank Plates, 1-5 and thicker. 2 00 2 25
Boiler Rivets 4 50 5 00

Boiler Tubes.

1½-inch 0 06½
2 " 0 07½
2½ " 0 09½
3 " 0 11

Steel Boiler Plate.

3-16 inch 2 00
" 1 90

¾ inch and thicker 1 75

Black Sheets.

18 gauge 2 40
20 " 2 50
22 to 24 " 2 55
26 " 2 65
28 " 2 85

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,
\$2.65; ½ inch, \$2.65; ¾ inch, \$2.95; 1 inch,
\$4.00; 1½ inch, \$5.30; 2 inch, \$6.90; 2½ inch,
\$9.10

Galvanized, ¼ to ¾ inch, \$5; ½ inch,
\$5.30; ¾ inch, \$5.90; 1 inch, \$8; 1½ inch,
\$11.20; 2 inch, \$13.20; 2½ inch, \$18.35. Cast
soil, 2, 3, 4 and 5 inch, 60, 10 and 5 p.c.

Galvanized Iron.

G.C. Comet. Amer. Head.
16 gauge 3 75 3 90
18 to 24 gauge 4 00 3 25 3 90 4 15
26 " 4 25 3 50 4 15 4 40
28 " 4 50 3 75 4 50 4 65

Less than cask lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs
" ¼ " " 6 50
" ½ " " 4 00
" ¾ " " 3 60
" 1 " " 3 40
" 1½ " " 2 35
" 2 " " 3 15
" 2½ " " 3 05

Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per
doz. yards 0 13 0 50
Jack chain, double, per doz.
yards 0 15
Jack chain, brass, single, per
doz. yards 20 10

Copper.

English B.S., ton lots 0 18½ 0 19½
Lake Superior
Bolt or Bar.
Cut lengths, round, ½ to ¾ in. 0 23 0 24
" round and square
1 to 2 inches 0 23 0 24

Sheet.

Untinned, 14 oz., and light, 16
oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16
oz., irregular sizes 0 23 0 23½

NOTE.—Extra for tinning, 2 cents per
pound, and tinning and half planishing 3
cents per pound.

Tinned copper sheets 0 26
Planished 0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs., ea., per lb. 0 25
" 35 to 45 " 0 21
" 50-lb. and above, " 0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½
p.c. off list.
Sheets, hard-rolled, 2x4 0 20 0 22½
Tubing, base per lb. 0 21 0 22

Zinc Spelter.

Foreign, per lb 0 07½ 0 07½
Domestic " 0 07½ 0 07½

Zinc Sheet.

5 cwt. casks 0 08
Part casks 0 08½

Lead.

Imported Pig, per lb 0 04½
Domestic, per lb 0 04
Bar, 1 lb. 0 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05

NOTE.—Cut sheets ¼ cent per lb. extra
Pipe, by the roll, usual weights per yard, lists
at 7 cents per lb. and 17½ per cent. discount.

NOTE.—Cut lengths, net price, waste pipe
in 8-ft. lengths, lists at 7½ cents.

Shot.

Net list, no discount.

Solder.

Per lb. Per lb.
Ref half-and-half 0 16½ 0 17½
Refined 0 16½ 0 16½
Wiping 0 15½ 0 16

NOTE.—Prices of this graded according to
quantity. The prices of other qualities or
solder in the market indicated by private
brands vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½
Other makes, per lb 0 09 0 09½

White Lead.

Pure, Assoc. guarantee, ground in oil,
25 lb. irons 6 00
No. 1 do 5 62
No. 2 do 5 25
No. 3 do 4 87½
No. 4 do 4 10

Robertson's Chemically Pure 6 00
Munro's Select Flake White 6 25
Elephant and Decorators' Pure 6 00
Brandram's B. B. Genuine 7 25
James genuine 7 20
" No. 1 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04½
Pure, kegs 0 04½
No. 1, casks 0 04½
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00
Robertson's Pure 1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 08
Chrome Yellow 0 11
Golden Ochre 0 06
French 0 05
Marine Black 0 09
Green 0 09
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J.C.) bbls. per
cwt 1 35 1 40
Yellow Ochre (J.F.L.S.), bbls.
per cwt 2 75
Yellow Ochre (Royal), per
cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80
English Oxides, per cwt. 3 00
American Oxides, per cwt. 1 75
Canadian Oxides, per cwt. 1 75

Burnt Sienna, pure, per lb. 0 10
" Umber, " 0 10
" do. aw 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03½
Ultra marine Blue in 28-lb.
boxes, per lb. 0 03 0 24

Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1 lb. packages 0 15
½ lb. 0 16½
1-lb. tins 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 06
100-lb. lots, do. per lb. 0 07

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30

Quotations f.o.b. Toronto—10c. per 100 lbs.
extra Hamilton, London, Guelph. For quan-
tities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.) per gal
Carriage, No. 1 1 50
Extra do. 2 50
Body Varnish 4 50
Furniture Varnish 0 35
Extra do. 0 30
Demar Varnish 1 60
Hard Oil Finish 1 40
Orange Shellac Varnish 2 00
White Shellac 2 20
Rubbing Varnish 2 50
Polishing Varnish 2 50

Linseed Oil.

Raw, per gal. net 0 51
Boiled, per gal. net 0 54
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 67
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10½
Small lots 0 11½

Cod Oil, Etc.

Cod Oil, per gal. net 0 50 0 55
Pure Olive 1 20
Neatsfoot 90

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medal 0 12 0
Cabinet, sheet 0 11 0
White, extra 0 16 0 10
Gelatine 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
B. B. Caps. Dom. 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p.c. Amer.
Rim Fire Cartridges, Dom., 50 and 5 p.c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p.c. Amer.

JOHN BOWMAN HARDWARE AND COAL CO.

London, Ont.

S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges pistolsizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.

Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.

Wads.
 Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 25
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Anvils.
 Per lb., 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb., 09 0 09½
 Wilkinson & Co.'s Vices, lb., 09½ 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 Excelsior, Jennings', discount 50 per cent.

AXES.
 Millar's Falls, per doz., 2 8 3 30
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, 11 00 18 00
 Bench Axes, 40 and 10 p.c.

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list.
 Boxing extra

Anti-Friction Metal.
 "Tandem" A, per lb., 0 19
 " " B, " 0 16
 " " C, " 0 10½
 " " D, " 0 21
 " " E, " 0 15
 " " F, " 0 10
 " " G, " 0 10
 " " H, " 0 10½
 " " I, " 0 15
 " " J, " 0 25
 " " K, " 0 15
 " " L, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, discount 50 per cent.
 Peterboro', discount 50 per cent.

Cow.
 American make, discount 56½ per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.
 American, each, 1 25 3 00

House.
 American, per lb., 0 35 0 40
 Bellows.
 Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.
 Auger.
 Gilmour's, discount 65 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 " " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.
 Gilmour's, 47½ to 50 per cent.
 Expansive
 Clark's 40 per cent.
 Excelsior, 10 per cent.
 Gimlet.
 Clark's, per doz., 0 65 0 90
 Diamond, Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Annex, per doz., 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 30

Blind and Bed Staples.
 All sizes, per lb., 7½ 0 12

Bolts.
 Carriage, 5 1-16 and under, dis., 60 and 5 p.c.
 " ½ and larger, dis., 62½ per cent.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Sleighshoe, 50 per cent.
 Machine, all sizes, 60 and 15 per cent.
 Blank, 6½ and 15 per cent.
 Coach Screws, dis. 75 and 10 p.c.
 Plough bolts, 60 p.c.
 Bolt ends 6 and 15 per cent.
 Nuts, square, 4½c.
 " hexagon, 5c.
 Tapping nuts, 70 per cent.

Boot Calks.
 Small and medium, per M., 4 50
 Small heel, per M., 4 25

Broilers.
 Light, dis. 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, 6 00
 Henis, No. 9, 7 00
 Queen City, 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Wall Rings.
 Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.
 Brass.
 Wrought Brass, dis., 10 p.c. revised list.

Cast Iron
 Loose Pin, dis. 70 per cent.
 Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Cards.
 Horse per doz., 0 60 1 00

Carpet Sweepers.
 Bissell, per doz., 22 50
 World, " 21 75
 Daisy, " 24 00
 Star, " 18 00
 Crown Jewel, per doz., 29 00
 Grand Rapids, " 24 0 33 00

Carpet Stretchers.
 American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross, 8 50 9 50

Cement.
 Canadian Portland, 2 65 2 90
 English, 2 80 3 00
 Belgium, 2 50
 Canadian hydraulic, 1 00 1 10
 Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross, 0 45 0 75
 English, 0 60 0 65
 White lump, per cwt., 0 05 0 06
 Red, 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.
 Socket, Framing and Firmer
 Broad's, dis. 75 per cent.
 Waroock's, dis. 40 and 5 per cent.

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock,
 Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain, 3 25
 " embossed, 3 50
 Connections, 1 10

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe dies), (Amer. list), di 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
 Torrey's Rod, per doz., (15 p.c.), 2 00
 Coil, per doz., 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 25 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz. net list.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz., 85 1 70

FILES.
 Globe File Mfg. Co.'s dis., files, 50 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Foote, 60 and 10 per cent. to 60.

Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27½ per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS.
 Ice Cream.
 White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.
 Window.
 Box Price.

Size Inches.	Star. 50 ft.	Per 100 ft.	Double Diamond Per 100 ft.
Under 25	1 80	3 50	5 50
26 to 40	1 95	3 80	6 00
41 to 50		4 20	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.
 Rope, ¾ per gross, 8 25 8 50
 " ½ " " 9 25 9 50
 " ¼ " " 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 00
 " 1½ in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can., dis. 25 to 27½ per cent.

Tack.
 Magnetic per doz., 1 10 20

Sledge.
 Canadian, per lb., 0 07½ 8½

Ball Pean.
 English and Can., per lb., 0 22 25

HANDLES.
 Axe, per doz., net, 1 50 2 00
 Store door, per doz., 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz., 1 00 25

Plane.
 American per gross, 3 1

Hammer and Hatchet.
 Canadian, 45 per cent.

Cross-Cut Saw.
 Canadian, per pair, 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair., 0 40 50
 Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.
 " Shepard's Noiseless, dis. 60 per cent.
 " Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb., 0 05
 " 5-in., " 0 04½
 " 6-in., " 0 04½
 " 8-in., " 0 04½
 " 10-in., " 0 04

Screw hook and hinge—
 6 to 12 in., per 100 lbs., 3 75
 14 in. up, per 100 lbs., 3 00

Per gro. pair
 Spring, 8 50

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		
Wire.		
Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent.		

HORSE NAILS

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		F.O.B.
Light, medium, and heavy.	3 25	Toronto.
Snow shoes.	3 50	
Steel Shoes.		
Light, all sizes.	3 45	
Extra light.	4 60	
Too weight (steel).	5 60	
If shipped from factory, Montreal, 10c. per		
leg less.		

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per		
doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net, to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
10 and 5 per cent.		
Lightning, per doz.	6 50	8 10
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 81
King, wood.	2 75	2 90
King, glass,	4 00	4 50
All glass	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	1 75	7 50
Cabinet.		
Magle, dis. 30 p.c.		
Padlock.		
English and Am., per doz.	50	6 30
Scandinavian, "	1 00	2 40
Magle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:	Cut.	Wire.
2d. and 3d.	\$2 75	\$3 40
3d.	2 40	3 05
4d. and 5d.	2 15	2 81
6d. and 7d.	2 05	2 70
8d. and 9d.	1 90	2 55
10 and 12d.	1 85	2 50
16 and 20d.	1 80	2 45
30, 40, 50 and 60d. (base).	1 75	2 40
Steel Cut Nails 10c. extra		
Brads and finishing nails, special sizes,		
80 p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
NAIL SETS.		
Square, round, and octagon,		
per gross.	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.

OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety "	0 16½	
American w. w. "	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil		
can, with pump, 5 gal.	0 00	9 00
2 in. R. & L.		
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Brass, "	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Grass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis,		
Mrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to	\$ 50 00	
2 in. R. & L.		
No. 38 Hand Machine, range ¼ to	100 00	
to 4		
No. 56 Hand Machine, range 2½ to	175 00	
to 6.		

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.

S. R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and		
p.c.		
Copper Rivets & Burrs, 37½ p.c. dis.		
cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	9	Manilla
¾ in.	9½	10½
½ and 5-16 in.	10½	11
Cotton	13	
Russia Deep Sea	14½	
Jute	6¾	7½
Lath Yarn	8¾	
New Zealand Rope.		

RULES.

Boxwood, dis. 80 and 10, to 80 and 12½ p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Diaston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diaston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
frame only.	0 75	

SAW SETS.

" Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks, Standard, 45 p.c.		
Dominion, 60 p.c.		
Richieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

Wood, F. H., iron, and steel, dis. 85 p.c.		
Wood R. H., " dis. 77½ p.c.		
" F. H., brass, dis. 77½ p.c.		
Wood R. H., " dis. 70 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz.	3 25	4 00
" iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 60 p.c.		
Heinisch, dis. 80 p.c.		
Clauss, full nickel, 60 p.c.		
japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 00

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent. revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	2 75	
Bright.	2 50	

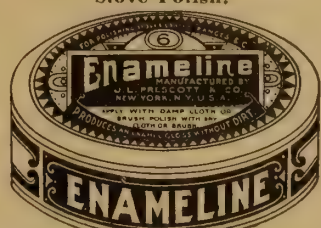
STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindustan, "	0 06	0 07
slips, per lb.	0 09	0 13
Labrador.	0 15	
Axe,	0 15	
Turkey	0	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind, per ton.	15 00	18 00

Stove Polish.



No. 4-3 dozen in case, net cash	\$4 50	
No. 6-3 dozen in case,	7 50	

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c
2nd grade, 3 to 10-ft., per foot, 10c.

TACKS, BRADS ETC.

Strawberry box tacks, bulk	75 and 10	
Cheese-box tacks, blue	85 and 30	
Trunk tacks, black and tinned.	85 and 25	
Carpet tacks, blue and tinned.	80 and 20	</

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**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WORKSHOPS: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.



**Force
Lift
Cistern
Pumps**

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
Galt, Canada.

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THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,
Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

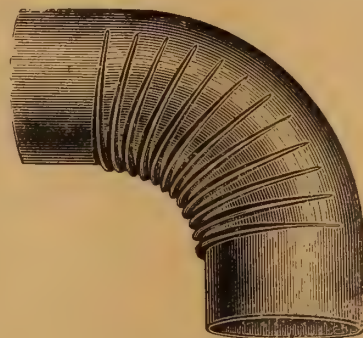
TORONTO OFFICE.

McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

E. T. Wright & Co.

Manufacturers and sole owners

**SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.**



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers

**PERFECTION
AUTOMATIC
REVOLVER.**

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



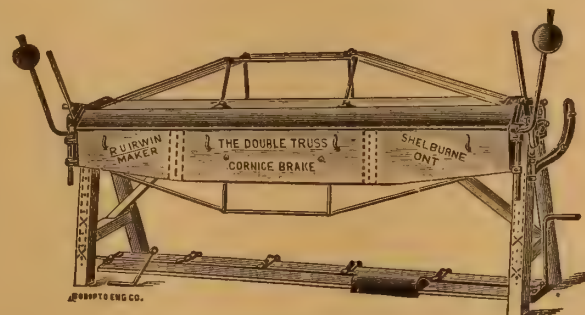
**SEND FOR
CATALOGUE.**

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

**Worcester,
Mass.**



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co. SHELBURNE, ONT.**

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

Est. 1883

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

Gold Medal at Atlanta, 1895

TRADE MARK.



TO INSURE COMFORT AND SAFETY

...USE...

"Maltese Cross" Inner Tubes

AND



The Toronto Rubber Co.

Limited

185 Yonge Street - TORONTO, CANADA

**ROBERTSON'S
READY-MIXED
PAINTS**

— ARE —

Pure Paints

YOUR CUSTOMERS KNOW THIS.

There's profit in them for every retailer who handles them.

Manufactured by....

The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

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Scientific Bearing Metal
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MARCH 18, 1899.

NO. II



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267
West St., New York

"Fleur de Lis" Canada

New brand of **Galvanized Iron**, manufactured by makers
of "Queen's Head," and guaranteed equal to any other brand
made excepting "Queen's Head."

Working qualities and weight guaranteed same as "Queen's
Head."

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD Patent RADIATORS

*For Heating by
HOT WATER and STEAM.*

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The  **Dominion Radiator Company**

TORONTO

Limited



*Safford
Patent*

RICE LEWIS & SON

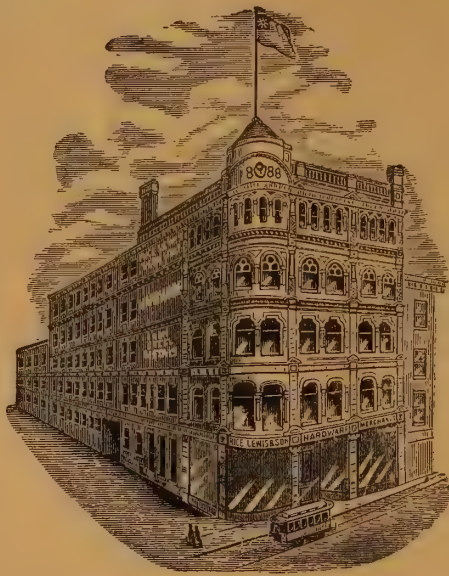
(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their local mills and factories. Special discounts to the trade. Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO,

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

J. K. MACDONALD,
Managing Director

ALL OUR Garden Hose IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN
COTTON

TRADE
RUBBER LINED
WHITE

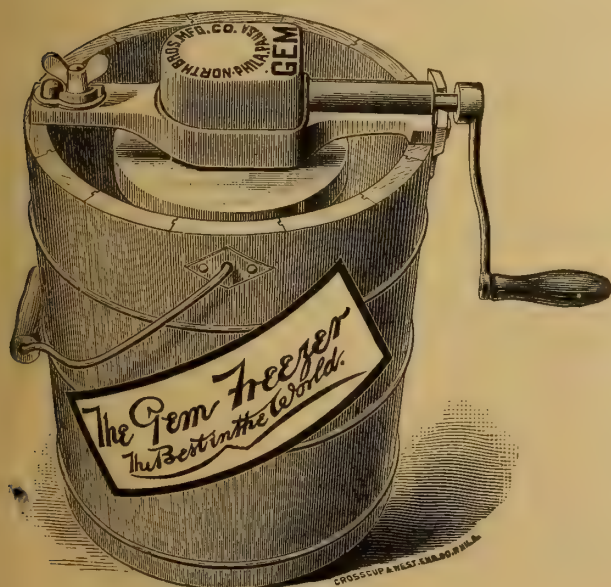
THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



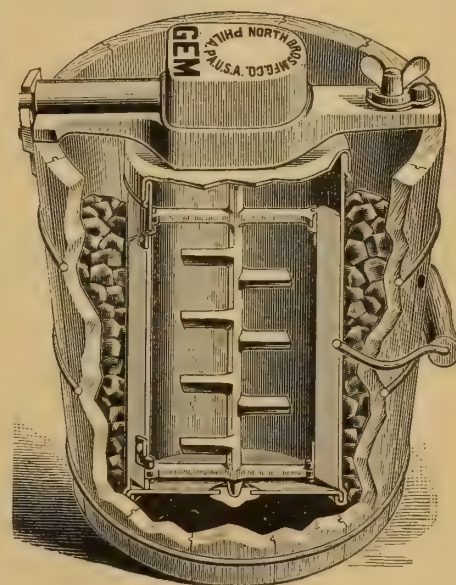
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAIS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

CATALOGUES mailed free
...on application.

Philadelphia, Pa.

SOLD BY LEADING JOBBERS EVERYWHERE.

Sanderson Pearcy & Co.

Paints and Oils
Fine Colors
Varnishes
Alabastine
Window Glass

61, 63, 65 Adelaide St. West

TORONTO.

STEEL SNAPS.

FORGED FROM THE BEST BESSEMER STEEL.



We would call your attention particularly to our new

1/2-INCH or BAG SNAP.

Sample sent on application.

ONEIDA COMMUNITY, LIMITED

NIAGARA FALLS, ONT.

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

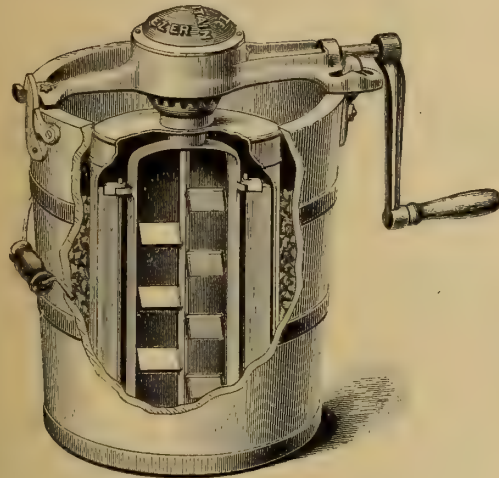
SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

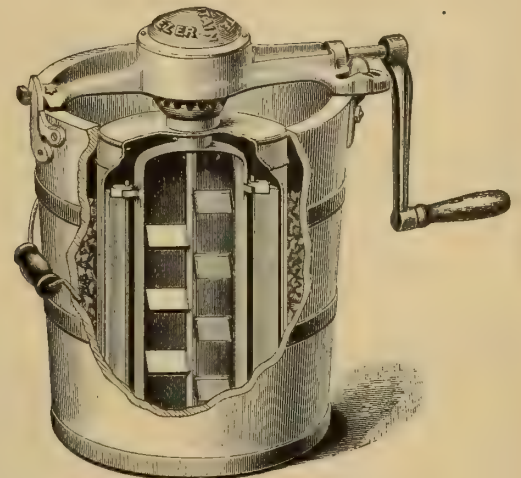
The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

THIRTY YEARS MAKING



ICE
CREAM
FREEZERS



AND NOTHING ELSE.

We study the **freezer business**, and have endeavored to manufacture an Ice Cream Freezer that would produce the largest possible quantity of the finest quality of Ice Cream, most economically with the least labor, in the shortest possible time, and the

White Mountain Freezer IS THE RESULT.

This one subject we have conquered. The White Mountain Freezer of to-day is the best possible product of skilled workmen, fine materials, careful construction. The result of every resource that experience, and a splendid group of factories, can give, and is acknowledged everywhere to be the standard of excellence.

There is profit in them for the Dealer. Satisfaction for the User.

Sole Agents for the Dominion are . . .

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

Manufactured Exclusively by

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

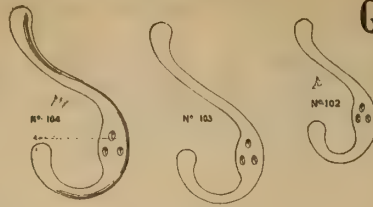
KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

**Gunn's Patent "Brassic" Goods**

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,
Canadian Agent, 220½ Board of Trade, MONTREAL.

Deseronto Iron Co.

LIMITED

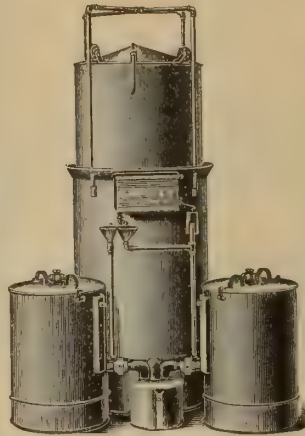
DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

**ACETYLENE GAS.**

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS.

Send for Booklet.

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

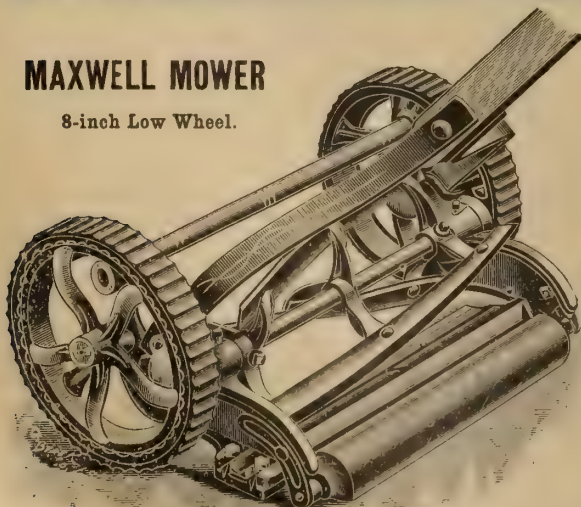
"THE MAXWELL"

LAWN MOWER

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



"That Feeling of Safety."

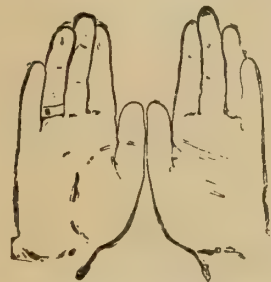
You may throw aside all misgivings when you go
awheeling on a Dunlop-tired mount.

Manufacturers put the proper finish to their best
wheels by fitting them with
Dunlop Detachable Tires.

So it's always safe to look
for the trade mark on the tire—

"Dunlop Annual" mailed
free from Department "X."

**Dunlop Offices,
36 and 38 Lombard St.
Toronto.**



"The only tools you'll need."

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING**

GOOD LUCK FIBRE

2 and 3 PLY READY ROOFING

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited
BRANTFORD.



Manufacturers of Re-
frigerators, Screen
Doors, Screen Win-
dows, etc. Household
Refrigerators in four
lines, Grocers' Refrig-
erators two lines,
Screen Doors six lines,
Screen Windows three
lines. All in various
sizes. Our aim is to
make first-class goods
at the right prices, and
to deal fairly with all
having dealings with
us. Send for 1899
catalogue.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

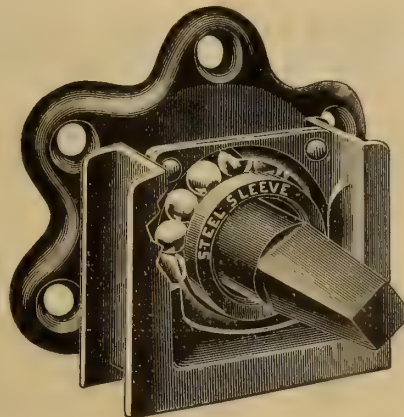
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as
supplied with new pattern stands. Easiest
running and most durable bearing made.



This is our Latest Stand, with
Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited
W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.
HAMILTON, CANADA

If you want to **SELL**

Summer stoves—not keep them on hand—

Order a stock of —  —

QUICK MEAL

**Gasoline and Blue Flame Oil
and OXFORD Gas Ranges.**

Superiority in construction, sterling reliability, and just those details of convenience that appeal to all customers, are their strong points.

We are sole Canadian agents for the Quick Meal stoves, and recommend your special attention to the new Wickless Blue Flame Quick Meal, made in full lines this season.

The Quick Meal and Oxford Gas lines are the most profitable sellers you can handle.

Have you our catalogues?

If not write for them, and make out your order.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

Tinned Sheets



Our stock is now complete
in all regular and special sizes.

Write for Prices.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

The "STANDARD WICKLESS"

Blue Flame Oil Stove.

The stove that will revolutionize the oil stove business in 1899. Unique and "Fetchy" in appearance. The kind that sell easy and stay sold, because it has :

No Wicks to trim or replace.
Sight drip oil feed.
Measuring cup for starting.
All parts interchangeable and
Easily kept clean.
Simple operation.
Rapid action.



Made in eight styles and sizes, and built on new cabinet frame.
Write us for catalogue and prices.

The Thos. Davidson Mfg. Co., Limited, Montreal

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

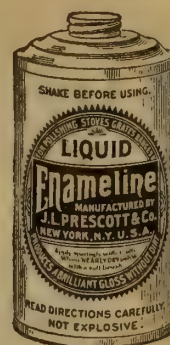
The Modern STOVE POLISH



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Write for Latest Catalogues and Samples to

THE LONDON EMERY WORKS CO.,

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Kemp's Wickless Blue Flame Oil Stoves.

A New Feature this year will be our Wickless Blue Flame Oil Stove.

**HANDSOME, CONVENIENT
and ABSOLUTELY SAFE.**

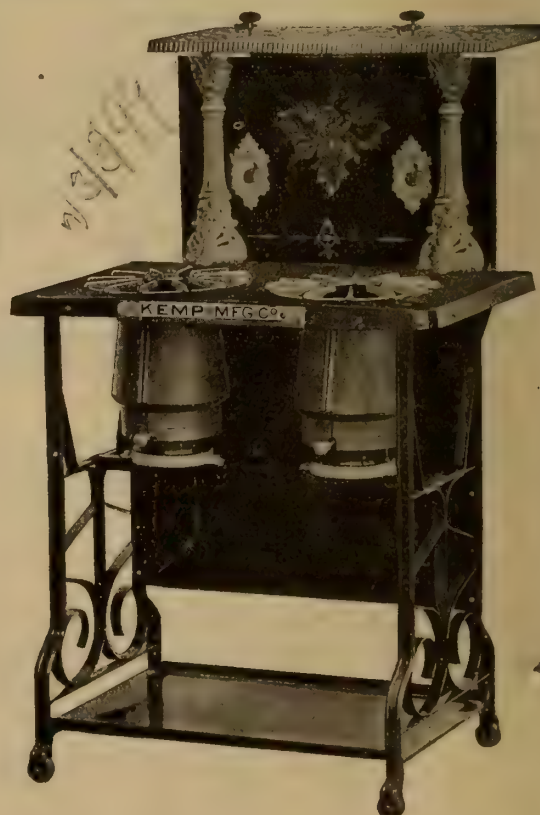
The Oil is fed to a powerful burner through Solid Brass Tubes, and Lights Instantaneously.

SIGHT FEED.

Removable Tanks, covered by Swinging Shelf.
No Complications, as Stoves are supplied with Removable Parts and can be quickly taken to pieces.

ECONOMICAL IN FUEL.

The Simplest, Readiest Understood, and most Reliable Wickless Blue Flame Stove made.



KEMP MANUFACTURING CO. - Toronto, Can.



Vol. XI.

MONTREAL AND TORONTO, MARCH 18, 1899.

No. 11

President, JOHN BAYNE MacLEAN, Montreal.
Treasurer, HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

OFFICES

MONTREAL - - - - Board of Trade Building, Telephone 1255.
TORONTO - - - - - 26 Front Street West, Telephone 2148.
LONDON, ENG. - - - - 109 Fleet Street, E.C., J. M. McKim.
MANCHESTER, ENG. - - - - 18 St Ann Street, H. S. Ashburner.
NEW YORK - - - - - 14 Irving Place, M. J. Henry.
WINNIPEG - - - - - Western Canada Block, J. J. Roberts.
ST. JOHN, N. B. - - - - No. 3 Market Wharf, J. Hunter White.

Subscription Canada, \$2.00 Great Britain, \$3.00

Published every Saturday.

Cable Address { Adscript, London
Adscript, Canada

**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

CASH DISCOUNTS INSTEAD OF TRADING STAMPS.

A RETAIL firm of grocers, which, after an eight months' trial, has discontinued the use of trading stamps, has decided instead to give a discount of 3 per cent. for cash.

As under the trading stamp and coupon systems, when a customer purchases goods to a certain value, the firm gives him a check, and when \$5 worth of these checks have been collected, the customer is entitled to 15c. worth of groceries.

This is a far more businesslike way than the trading stamp scheme, for whatever advantage accrues from doing a cash business will be enjoyed by the merchant himself.

Under the trading stamp scheme the

merchant is first of all the salesman, without remuneration, of the promoters of the scheme. He sells their goods, and, what is more, he pays for them.

Then, under the trading stamp system, such stamps as are not used by the person to whom they are given redound to the advantage of the company which originally issued them, but, by giving a discount for cash, such as the grocer in question proposes, the benefit derived from the unredeemed checks accrues to the merchant, to say nothing of the satisfaction of knowing that he is conducting his own business without the interference of a third party.

The scheme is worthy of a trial by hardwaremen as well as by grocers.

ADVANCE IN IRON PIPE.

The iron pipe market is excited at present as a result of conditions on the other side of the line, and some makers have withdrawn quotations, while others ask an advance of fully 20c. per 100 feet.

But, though we quote the advanced prices in our market reports, some sellers in Montreal have been accepting orders this week at the old basis. How long they will continue to do so is another matter. The advance is a rather sensational one, as will be noted from the following Montreal jobbing prices :

Black Pipe.	New price.	Old price.	Rise.
¼-inch	\$2.90	\$2.70	20c.
⅜ " "	2.90	2.70	20c.
½ " "	2.75	2.45	30c.
¾ " "	3.10	2.95	15c.
1 " "	4.40	4.20	20c.
1 ¼ " "	5.90	5.40	50c.
1 ½ " "	7.15	7.10	5c.
2 " "	9.70	9.60	10c.
Galvanized—			
¾-inch	\$5.55	\$5.25	30c.
½ " "	5.90	5.50	40c.
¾ " "	6.55	6.25	30c.
1 " "	8.95	8.50	45c.
1 ¼ " "	12.40	11.75	65c.
1 ½ " "	15.15	14.50	65c.
2 " "	20.30	19.50	80c.

VALUES STILL SKYWARD.

AS will be noted in our regular market reports, finished iron material of all sorts still exhibits a rising tendency, with further advances already actually established in many important lines, as specified elsewhere.

It is not at all surprising that this should be so. Last week, we had occasion to refer to the increasing cost of all raw material, and since then there has been further sensational rise in many lines of raw material that our rolling mills and iron manufacturers regularly employ in turning out their finished articles.

Taking the prices quoted at leading United States centres on Tuesday, there has been a rise of 50c. per ton in both Pennsylvania and southern pig iron at New York since March 8. This makes \$1 per ton in the fortnight.

Old material, such as old steel rails, old machinery and other scrap iron, has advanced 50c. to \$1 per ton on the week.

Foundry pig, at Pittsburg, is all the way from \$1.50 on No. 3 up to \$2.25 on No. 1 per ton higher than it was a week ago. Grey forge iron has advanced \$1 per ton on the week, and billets 75c.

It has to be borne in mind, also, that these advances are simply supplementary to others that have been established each week for over a month back. In fact, the iron market is in a very excited condition, and no one is prepared to admit, even now, that the top has been reached.

Manceuvre to catch every favorable breeze, even if you are doing pretty well in the business race.

STILL COURTING CANADIAN TRADE.

THE New York Chamber of Commerce has passed another resolution in regard to trade with Canada, the last paragraph of which reads :

Resolved, That the Committee on Foreign Commerce and Revenue Laws of the Chamber of Commerce of the State of New York be authorized to take such steps as it may deem proper and called for for the promotion of better trade relations between the United States and the Dominion of Canada.

It is gratifying to know that the New York Chamber still recognizes the value of Canadian trade and is still engaged in trying to secure it.

It shows that the business men of New York are wiser in their generation than the politicians who rule the country.

The Chamber of Commerce is an influential body ; but it is not influential enough to bring about what it evidently so much desires. In fact, all the chambers of commerce in the United States combined are not influential enough, just at present, at any rate.

Last year, the chambers of commerce in about 50 different cities and towns in the United States, including those in Boston, New York, St. Louis, and Chicago, passed resolutions in favor of closer trade relations with the Dominion of Canada, but what effect had they upon the politicians who make and unmake the laws of the country ? One only needs to be reminded of the recent abortive international convention in order to give an intelligent answer.

As we have already said, about 50 chambers of commerce across the line passed resolutions last year in favor of closer trade relations with Canada ; but who was it that had the ear of the commissioners during the conference ? It was not the business men of the United States : It was the politicians of that country.

Before those who desire closer trade relations with Canada can hope to attain their object it will be necessary for them to exercise as much influence over the Federal Senate as they now do over the chambers of commerce. Until then their resolutions will only have value as educators, which, of course, is not to be despised.

In the meantime, the business men of the United States may propose, but it is the

politicians who dispose. And we in Canada are in much the same position.

EARLY CLOSING IN TORONTO.

The hardware dealers of Toronto, as a rule, are not open to the criticism that they are fond of late hours in business. The down-town stores, and a goodly proportion of the up-town ones are closed early, some at six, others at seven, while eight o'clock finds nearly all their doors shut.

The advantages of early closing are too apparent to need discussion—the only drawback, that of the loss of trade, is one that has generally been found, by those giving early closing a fair trial, to be immaterial, for people soon learn to buy in the daytime, if they have to, what they leave to the evening when they can.

The Toronto Retail Grocers' Association are at present making a businesslike effort to institute early closing throughout the city.

Their efforts have not been without success either, for already grocers in Parkdale and North Toronto, on College and McCaul streets have agreed to close their doors at an early hour.

When such an agitation is on, would it not be a favorable time for hardware dealers who have not yet commenced to close early, to begin ? The proportion of people who want hardware who cannot or will not buy it in the daytime is so small that the loss of their trade will be compensated by the saving of gas, not to mention time and trouble

RETAILERS AND ADVANCING PRICES

A sensible view of the course the hardware dealer should follow is taken by Stoves and Hardware Reporter :

" Suppose the dealer carries a stock of hardware worth \$10,000—and he could do this without necessarily being in league with the money devil. It says, a fair average of the advance of everything in his store would be about 15 per cent. In other words, if he placed his orders promptly when the first symptoms of advancing prices became discernible, he is something like \$1,500 ahead of the game. The writer is acquainted with several hardware merchants who do not figure on making much more than that during an entire year. Or, say the dealer

carried a stock worth only \$5,000, and certainly the average hardware merchant could not be satisfied with any less, in that case he would still make \$750 by carefully studying the markets and buying before prices advanced. Of course, \$750 is not a large sum of money, but it should be considered a fair equivalent for the subscription price of a first-class trade journal."

WIRE NAILS STILL RISING IN PRICE.

The price of wire nails shows a further appreciation this week.

The advance is 15c. per keg in Toronto and 20c. in Montreal, making the price in both cities \$2.55 per keg.

The advance is in sympathy with the higher cost of raw material, and manufacturers claim that the cost of the latter would warrant their increasing their prices 25c. per keg, instead of 15c. per keg.

WILL OGILVIE'S MILLS GO ?

Urban municipalities have a penchant for creating conditions which make it unpleasant for manufacturers to stay in their midst.

Toronto, some years ago, developed a most pronounced mania in this respect, and now, after having driven out many industries and kept others out, she is awakening to the fact that it was a blunder.

Montreal has got a new charter, and one of its purposes is to levy a tax on machinery. This has, naturally, caused some alarm, and Mr. W. W. Ogilvie, who operates three mills in that city, declares that when the tax goes on, his mills will go out, and would be located in some other place where the taxation was less onerous.

The great difficulty is that a tax placed on Mr. Ogilvie's machinery would handicap him in his competition with mills elsewhere that not only are free from taxation, but are enjoying bonuses as well.

Montreal should think twice before she finally decides upon taking a course that will result in driving from her confines an industry which gives employment to 300 hands.

TOWER BOLTS DEARER.

This week's advices from Great Britain show an advance of about 5 per cent. in the price of tower bolts, and jobbers in Canada appear to be marking up their quotations by a similar amount.

STOVES ADVANCE IN PRICE.

THE advance in the price of stoves, anticipated by **HARDWARE AND METAL**, has been realized. The advance went into effect on Thursday, and, while it is on the face an appreciation of 10 per cent., it is not in reality more than 6 or 7 per cent.

It will be remembered that about a month ago the stove manufacturers decided to discontinue the delivery terms which had obtained since 1891, and, instead, to make delivery only at manufacturing points, freights, in other instances, being equalized on the nearest factory point.

With the advance of 10 per cent., the makers have decided to again restore the terms which obtained until a month ago. The increase, therefore, is not as large as it seems.

Since **HARDWARE AND METAL** announced that the price of stoves was likely to be advanced, a good many dealers have placed orders. Those who have not, now no doubt wish they had.

The Canadian stove manufacturers are not alone in their advance of prices. Their confreres in the United States put their figures up 10 per cent. on Thursday of last week.

The advance, it is scarcely necessary to say, is due to the increased cost of raw material. The Canadian stove manufacturers are paying \$3 to \$4 per ton more for their pig iron than they were when the latter was at its lowest point.

The Southern furnaces, which are the great source of foundry pig iron, are not only without any stocks of iron, but the great storage yards in the South are almost empty. It is said that such a condition of affairs has not been seen since the great boom of 1879-80, when iron sold at over \$40 per ton in Northern trade centres of the United States.

No change has yet been made in the price of stoves in either Canada or the United States, although in the latter country a movement is on foot with that object in view.

TO AMEND N. S. INSOLVENCY ACT.

An important amendment to the Nova Scotia Insolvency Act has been introduced in the Legislature of that Province by

Attorney-General Longley. It provides that all assignments shall be made to the official assignee, taking away the option given in the Act passed last year, whereby insolvents could assign to any other person.

The Attorney-General indicated that this option had been abused, most of the assignments having been made to persons selected by the insolvents themselves, which might not, in all cases, be in accord with public interests.

After the assignment has been made to the official assignee, a majority of the creditors in number, or three-fourths in value, can meet and hand over the estate to an assignee of their own choosing.

DEARER WOODENWARE.

Woodenware has now joined in the upward tendency of prices, the Canadian manufacturers having advanced their figures.

The changes went into effect on Wednesday.

The advance is 50c. per dozen on tubs, 15c. per dozen on confectioners' pails and covers, and 10c. per dozen on ordinary pails.

New lists are being prepared, but up to the time of going to press they have not been issued.

WIRE AGAIN ADVANCES.

Still another advance is to be reported in wire.

Barbed wire and staples were advanced 25c. per 100 lb. on Monday last. Barbed is quoted at \$2.75 per 100 lb.; safety at \$3, and plain twist, at \$2.75. Staples are quoted at \$2.75 for bright, and \$3 for galvanized.

The base price of smooth steel wire is 15c. per 100 lb. dearer, the figure, f.o.b. factory point, being \$3.45.

CUT NAILS 10c. DEARER.

The long spell during which the price of cut nails has been unchanged has at last been broken, quotations having this week been marked up 10c. per keg.

The price is now \$1.85 per keg. f.o.b. Toronto and Montreal.

It was during the first week in July, 1898,

that the last change was made, and then it was a reduction in price that was chronicled.

Wire nails are now 70c. per keg dearer than they were then, and about 85c. per keg above the lowest point touched between then and now. Cut nails, on the other hand, have advanced only 10c. per keg. It is no wonder that some of the makers think the present appreciation in the latter rather too small.

One advertisement does not create an army of customers any more than one recruit makes a battalion.

POSSIBLE ADVANCE IN TINWARE.

The trade need not be surprised to hear any day of an advance in the price of tinware. All the conditions are favorable for it.

Raw material, as everyone knows, is advancing, while the manufacturers are pushed with orders.

CLERKS DESIRE EARLY CLOSING.

A petition signed by about two hundred clerks in hardware stores in St. John, N. B., has been presented to The Hardware and Iron Association in that city, at a recent meeting, asking for Saturday half-holidays. Discussion brought out the fact that the employer as well as the employe would hail Saturday half-holidays with delight. It was generally felt, however, that one retail branch of trade alone could not reasonably be expected to close its doors against customers when those of all other lines remained open. It was decided, however, to adopt the Saturday half-holiday whenever the dry goods trade would do the same, without waiting for other branches to fall into line.

A suggestion that all places of business close for one hour every day for dinner met with much favor on its merits, and it may be that ere long steps will be taken to bring about this and will have been found to work satisfactorily.

A RETAILER'S BEST INVESTMENT.

Editor **HARDWARE AND METAL**,—Enclosed find \$2 for my subscription to your valuable trade journal. There is no money I expend brings me as much value as your paper. It is invaluable to every progressive hardwareman.

W. A. HILLHOUSE,
Shelburne, Ont.

SUCCESSFUL BUSINESS METHODS*

By J. G. CANNON.

THE spirit which pervades the business world at the end of this nineteenth century is loftier in tone than ever before in the history of this country.

Manufacturers are beginning to realize that the production and sale of dishonest and spurious articles is no longer profitable. A merchant's statements with regard to his goods are accepted as true until they are proven false. An article, to be worth advertising to-day, must have merit, and advertising, to be remunerative, must be restricted to truthful statements. Dishonest goods, like a depreciated currency, are not popular with business men. They are regarded as counterfeit goods and can be disposed of only by resorting to methods analogous to the "shoving of the queer." To restrain the dishonest merchant, who adopts such methods, a law was passed at the last session of the New York State Legislature against what is ordinarily termed "fake advertising," and the National Association of Credit Men gave this measure its hearty support, and was largely instrumental in securing the enactment of this salutary law.

"Claimers" are coming more and more to be marked men in commercial transactions, and this question is receiving a great deal of consideration in passing upon credit risks. Men who try to overreach in their dealings with others, and who seek to get the better of a bargain by resorting to methods, which are as petty as they are contemptible, are being excluded from the class of favored and trusted customers.

Thesaying, "cheat other men or they will cheat you," is fast losing its pertinence in business matters and a vast stride has been made towards popularizing the golden rule. The adhesive bond in the business structure of the day is a stronger faith in one's fellow men. Distrust disintegrates, mutual confidence builds up and cements together the business community.

Honesty and fair dealing are now the rule rather than the exception in business enterprises. The commercial world seems to have realized at last that honesty is really the best policy, and that there is now manifested a stronger disposition to consider a man honest until he proves himself the contrary, and when a man has once shown a lack of integrity he is cast out from business circles. There is also a growing disposition among merchants to consider character as among the strongest assets a man can have, and the time is not far distant when a man who makes a dishonest failure will find it difficult to rehabilitate himself in business,

as the mercantile community is growing less and less anxious to sell merchandise to this class of men. We can all remember the time when it was easy for a dishonest man to fail and immediately to commence business under another name, and to obtain credit from the very merchants who were swindled by the first operation.

The enactment of a national bankruptcy law is a great step forward and demonstrates the fact that a large majority of business men desire equity, justice and fairness in dealing with their debtors, and do not wish to take an undue advantage of other creditors. While improper use may be made of this law by some evil-minded persons, I venture the prediction that the number of fraudulent failures will be far less during the next ten years than ever before, and that the placing of all creditors upon the same basis in the distribution of the assets of an insolvent debtor will not only directly work a great benefit to all, but will indirectly exercise a salutary influence over credits generally.

While the spirit of competition is keener to-day than ever before, I think there is less and less malice and harsh feeling between competitors in similar trades as time goes on. This is evidenced by the growth of organizations among merchants and manufacturers in the same line of business, such as national and local associations of hardwaremen, clothiers and other similar associations which are formed for cooperation and protection of mutual interests. One of the members of our association has expressed in concrete form the difference between competition and opposition, and there is so much truth and force in his remarks that I take the liberty of quoting them:

"Competition is the life of trade." The merchant who promotes a healthy rivalry and honorable competition will find it so.

Opposition is rank poison to legitimate business. The merchant who wastes his time clubbing his neighbors and digging pitfalls for them will find it so; he will eventually fall in his own trap.

Competition and opposition are easily confounded.

Competition is an honest man's means.

Opposition is a two-edged sword, likely to draw blood on the luckless handler.

Competition, be it ever so sharp, is tempered with fair play.

Opposition arouses passion, puts a premium on trickery and degrades business.

Competition brings improvement and activity.

Opposition suggests any old scheme to injure an opponent.

Competition makes friends.

Opposition destroys friendships and makes enemies.

Competition nourishes profits.

Opposition kills them.

Competition means friendly rivalry, with honor and mutual success.

Opposition means unfriendly strife and hostility, without success to either party.

The benefits of competition are worldwide.

The evils of opposition are just as widely distributed.

A well-known writer has said that "mistakes and failures do not occur chiefly for want of knowledge of right principles. The trouble is that the principles are not kept fresh by frequent thought of them." The National Association of Credit Men has sought, by all the means in its power, to keep correct principles constantly before its members.

Another writer has said that "a journey through life is like a journey along the trackway of a retreating army. Here a valuable ammunition wagon is abandoned because a careless smith left a flaw in the tire; there a cannon is deserted because a tug was improperly stitched; yonder a brave soldier lies dying in the thicket where he fell because excited men forgot the use of an ambulance." Our association has constantly tried to demonstrate the necessity for carefulness in all details pertaining to the conduct of business. If the association had not accomplished anything beyond the fact of the adoption of its uniform statement blank, which is being generally used throughout the country and which is becoming more and more a factor in the mercantile world, this achievement alone would have justified its existence. It has, however, taken another step in advance by the agitation of the question of proper methods of accounting, in the small retail houses as well as in the larger establishments. To-day the woes of the credit man are magnified because it is impossible, strange as it may appear, to induce some merchants to keep any books whatever. The reason for their lack of this very essential feature lies in the fact that they do not understand how to keep a proper record of their affairs, and because they have never been brought to realize the benefit and

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.,
Limited
HAMILTON, ONT.

*Address before the Credit Men's Association.

profit to be derived therefrom. Others keep books, but their methods make it practically impossible to secure from the same the intimate knowledge of their financial condition which is so necessary for the intelligent extension of credit. No business man is properly equipped for the handling of his affairs who is not thoroughly familiar with the condition of his assets and liabilities, and frequently furnished with figures showing the results of his transactions.

I am thoroughly convinced, from my contact with merchants and other business men, that a vast proportion of the failures which take place would not occur if the managers of business houses and corporations were thoroughly and constantly familiar with their condition and intelligent results of their transactions frequently laid before them. The lack of this very essential information is not always due to the fact that books of account, intended to show such results, are not kept, but rather because the methods in use are complicated, slow and imperfect. Many bookkeepers get into what may be called a rut, and follow customs which have long since become obsolete. This is very apt to be the case with a bookkeeper whose duties confine him strictly to his office, and who, therefore, has no time to familiarize himself with unknown methods and with other and ready ways of obtaining results. He frequently has no knowledge of any but the system which he has followed for years. The heads of the house have their entire time and attention occupied with the buying and selling of merchandise and the management of the business, which renders them unable to improve the accounting system, even granting that they had the ability to do so. These slow and obsolete methods may be, and sometimes are, the result of prejudice upon the part of managers who have become wedded to a given system and are reluctant to try a new system with which they are not familiar, and which may require study and investigation upon their part. I have known of large institutions and business houses, which, at one period of their existence, have found it impossible to secure a statement of their condition, or of the results of business done, except at very long intervals, and then only after tedious and annoying delays. But, later, by the introduction of improved and more direct methods, the same institutions and business houses have been able at any time to secure a true statement of their assets and liabilities and of the results of their monthly transactions within a few days after the first of any given month; provided, of course, that everything had been kept up and there was no waiting to adjust matters which had been neglected, the only natural delay being that

required for receipt by mail of invoices and reports up to the given time. Their lack of information was not due to the want of desire or ability upon the part of their bookkeepers and clerks, but rather to the slow and cumbersome manner in which their books of accounts were kept.

The improvement of existing methods and the introduction of new systems is work for which the professional accountant has fitted himself, and he is rapidly assuming the relation to office work that the architect bears to the erection of buildings. The ideal way of handling business records, so as to get the most satisfactory results, would be to have the accountant provide for each particular business diagrams and written instructions, to correspond with the plans and specifications furnished by the architect. This, if properly done, would enable the business man to intelligently criticize the proposed arrangement before its introduction. It would also do away with the necessity of having an outsider in the office for an indefinite period to get the system under way, and the bookkeeping force would have at all times the diagrams and written instructions for reference and guidance. Of course, this may be too elaborate for the ordinary business man. We recognize the fact that



On The Wave Of Prosperity.

Business is good everywhere. People have money. Prosperity is in the air. Painting is brisk, and S. W. P. is in demand. It rides on the very crest of the wave. It has reached that position, because of its genuine worth—because it's a good honest paint, and does all that's claimed for it. It wears well. It looks well. It covers well, and is economical. It sells well because of these things.

Do you handle it?

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

there is a great diversity in the character of business, and that no one set form of book-keeping is practicable for all, but we believe there is a certain uniformity in accounting which may be adopted in most lines of trade.

FIFTY DOLLARS REWARD.

A reward of \$50 is offered for the capture and conviction of the person using the name of J. L. Prescott & Co., and signing same to drafts, without authority.

J. L. Prescott & Co., manufacturers of "Enameline" stove polish, have been annoyed by a certain person, who represents himself as their salesman, and pretends to take orders for "Enameline," and then makes a small purchase, offering a draft for a larger amount, receiving the balance in cash.

When remitting to their salesmen, J. L. Prescott & Co. send their lithographed cheque, as they never allow their representatives to make drafts on them.

The Consumers Gas Co., Limited, Toronto, are asking the Toronto council for a lot on the island, and for the exemption of buildings which the company propose to erect there in order to supply gas to the islanders.

U. S. PIG IRON PRODUCTION.

THE Iron Age, reviewing the pig iron production for the past month, says: "Production fell off quite heavily during February, the record of a considerable number of plants making a good deal less than their usual average. Besides this, quite a number of active stacks were stopped from different causes, while very few furnaces long idle were added to the list of active producers.

"The weekly capacity of the furnaces in blast on March 1 compares as follows with that of preceding periods:

	Furnaces in Blast.	Capacity Per Week. Gross tons.
March 1, 1899.....	192	228,195
February 1.....	195	237,639
January 1.....	200	243,516
December 1, 1898.....	195	235,528
November 1.....	196	228,935
October 1.....	192	215,635
September 1.....	186	213,143
August 1.....	187	206,777
July 1.....	185	216,311
June 1.....	190	225,398
May 1.....	194	234,163
April 1.....	194	233,339
March 1.....	193	234,430
February 1.....	184	228,338
January 1.....	188	225,608
December 1, 1897.....	191	226,024
November 1.....	183	213,159
October 1.....	171	200,128
September 1.....	161	185,506
August 1.....	152	165,378
July 1.....	145	164,064
June 1.....	146	168,380
May 1.....	146	170,528
April 1.....	153	173,270
March 1.....	156	169,986

"The position of furnace stocks, sold and unsold, as reported to us, was as follows on March 1, the same furnaces being represented as in former months. This does not include the holdings of the steel works producing their own iron:

Stocks—	Oct. 1.	Jan. 1.	Feb. 1.	March 1.
Anthraccite & coke	511,413	402,260	365,311	318,379
Charcoal	110,315	104,315	97,593	98,094
Totals.....	621,728	506,575	462,904	416,473

MONTREAL HARDWARE HOCKEY LEAGUE.

The final, and undoubtedly the most exciting match in the above league, was played in the Arena rink on Tuesday night, March 7, between teams from Caverhill, Learmont & Co. and the Montreal Rolling Mills Co., and was won by the Montreal Rolling Mills Co.'s team, after a hard game, by three goals to nil.

The play in the first half was very even, only one goal being scored, Geo. James doing the trick. The second half opened with some fine rushes by Caverhill, Learmont & Co.'s forwards, but they could not get past the defence of the Montreal Rolling Mills Co. The second goal was scored by Geo. James on a pass from Moore, and the third by Hough. G. James, Hough and Lawlor, of the Montreal Rolling Mills Co., and Donnelly, Newman and Davidson, of Caverhill, Learmont & Co., were the stars of the evening, Donnelly, in goal, making some wonderfully clever stops,

The teams and officials were as follows:

M.R.M. Co.	C.L. & Co.
White.....Goal.....	Donnelly
Moore.....Point.....	Bain
G. James (Capt.).....C. Point.....	Newman
Hough.....Forward.....	Davidson (Capt.)
Lawlor.....".....	Briegle
O'Dowd.....".....	Runk
J. A. James.....".....	Bremner
A. N. MacKerrow.....Umpires.....	W. Beatty
M. J. O'Shaughnessy.....Timekeepers.....	C. MacKerrow

Mr. H. G. Collins refereed the match in a very satisfactory manner.

The final standing of the league is:

	Won.	Lost.
Montreal Rolling Mills Co.....	6	0
Caverhill, Learmont & Co.....	3	3
Thos. Robertson & Co., Limited.....	3	3
Frothingham & Workman.....	0	6

The Montreal Rolling Mills Co. have reason to be proud of their team, they not only having won all six scheduled games, but have gone through the season without one goal being scored against them. They are truly "champions beyond compare."

GILBERTSON'S

"COMET"

BRAND

and carefully selected; will double seam either way of grain; are fully equal in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

Patent Flattened Galvanized Steel Sheets

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized

"Gilbertson's" Tinsplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent 22 St. John St., MONTREAL

CYCLING IN CANADA

or anywhere else can be enjoyed best by riding

IVER JOHNSON CYCLES

These cycles are honest, well-made machines—made of the best materials, by experienced workmen. They have drop-forged connections throughout. This is an expensive form of construction, but the best one. Many firms making wheels used to use them, but, with the lessening of prices, they adopted the cheaper castings, stampings, etc.

We can't afford to cheapen the cost of production, nor do we want to. We have a reputation for building **Honest Cycles at Honest Prices**, and we wish to maintain it. Send for free descriptive book.

Iver Johnson's Arms & Cycle Works
Fitchburg,
Mass.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

H. S. HOWLAND, SONS & CO., TORONTO.

CLOSING SALE

We are giving up the warehouse of Samuel, Benjamin & Co., on the 31st March.

All goods we have in this building must be sold or removed before this date. The trade would do well to visit Toronto at once if in want of any goods. Specially low prices will be given to clear out the whole stock.

In view of steadily advancing prices, this is a good opportunity to secure many goods away below old costs.

H. S. HOWLAND, SONS & CO.

37 West Front St., TORONTO.

[DEVELOP ABILITY IN EMPLOYEES.]

SOME employers never seem able to understand the first principles of handling employes, says Stoves and Hardware Reporter. They never allow themselves to think that the store could get along even for a day without their presence. They burden themselves with all the minor details of the various departments and thus in large measure relieve the heads of departments and subordinates of all responsibility. Such wholesale distrust on the part of employers, is of course reprehensible in the extreme.

They do themselves infinite harm, while at the same time they injure their business and weaken the capabilities of their employes. In other words, they do exactly the things which they vainly strive to avoid doing. Heads of departments prefer to be given full swing in their particular zones of influence and they are always willing to shoulder all the responsibility that goes with assuming the authority of management; and what is true of the heads of departments in this respect, is true of all the other employes in the house down to and including the elevator boy.

There is but one way to develop ability, and that is to place responsibility upon the shoulders of those with whom you desire to intrust the execution of important instructions. Retail merchants are not the only business men who make mistakes in the management of employes, for jobbers and even manufacturers frequently err grievously in this most important particular. They go on year after year laboring under the delusion that they themselves only understand the business in which they are engaged; and apparently it never occurs to them that they could entrust at least the routine work with others. In consequence the ability of employes lies dormant and the employer finds that his work grows more burdensome with passing years; whereas it would be just as easy and infinitely more profitable to have all the work done by employes whose happiness would be increased by assuming larger responsibilities, and the employer's burdens would grow lighter as time passed and the volume of business increased many fold.

NEW YORK METAL MARKETS.

PIG TIN—The arrival of the Mogul with 600 tons of tin among other cargo had a somewhat unfavorable bearing upon the market in the face of rather better London advices by cable. Shipments from London to this port were 425 tons on the Menominee, and the total afloat for America is now 4,600 tons.

The arrivals at Atlantic ports since the

1st inst. amount to 2,035 tons. So much of this was taken care of previously, that no burdensome quantity came upon the market unsold, and offerings ex ship were made at but about 0.10c. below the inside figures for corresponding quantities in store. Business for the day was fair, with prices at about 23.60 to 23.70c. for lots of five tons or more as to position, and 23.80 to 23.90c. for smaller lots.

Shipments of tin from the Straits during the first half of March were 2,000 tons, including 1,400 tons to the United States, 270 tons to England and 330 tons to the Continent.

COPPER—Business of somewhat larger volume was understood to have been closed, including considerable for export, but no particulars as to quantity or prices were divulged. The appearances were that the market has become more settled, but that present high cost is limiting purchases to such quantities of the metal as may be needed to cover requirements for one or two months only. The more general market quotations here are about 17½c. for Lake Superior ingot, 17c. for electrolytic bars, etc., and 16¾c. for ordinary casting stock. London cables were decidedly stronger, quoting an advance of about £1 on merchant bars early in the day.

PIG LEAD—There was no new move on the part of buyers or sellers. Both interests were very indifferent in the matter of making new propositions, and negotiation tapered down almost wholly to ordinary dickering on moderate quantities for early delivery. Prices seemed quite firm, with 4.45c. the inside quotation on common domestic.

SPELTER—The market was wholly unchanged. Offerings were of about the same general character as for some time past, with sellers firm at 6¼c. for prime western, and the buying confined chiefly to moderate quantities.

ANTIMONY—Dealings are moderate, but the market remains firm at 10 to 10¼c., as to brand. London cables quoted an advance to £399, or £1 for the week.

TINPLATE—There is no distinctly new feature. Business is irregular, yet of good volume on the average, and prices remain very firm throughout.

IRON AND STEEL—No reaction is visible in any branch of the market, except in consumers' orders for pig iron, and there the turn was not sufficient to affect values. Prices, as a matter of fact, remain strong all along the line.

Plans are being prepared for the erection of another cold storage building in Ottawa. John Ferguson is the promoter.

Emery and Hardware Specialties

Hamilton, Ont. **COOKE HARDWARE CO.**

Covert Mfg. Co.

West Troy, N.Y.

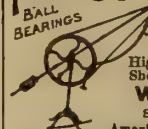
DERBY SNAP

Canadian Patent,
April 3 1897.

With Plated Rust Proof and Guarded Spring.
"The Latest and Best." Sold by all Leading
Jobbers in Canada.

PRIEST'S CLIPPERS

BALL
BEARINGS



Largest Variety,
Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and
Sheep-Shearing Machines.

WE MAKE THEM.

SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co.
WORCESTER, MASS



McLashille, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

Size,
¾-inch.



**Cheapest
IN THE
WORLD.**

J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet

Made
entirely of Metal,
and Ventilated.

Designed for dwellings
and places where water
closets cannot be used.

Price, \$15.00

Write for circulars and
trade discounts.

**16 Queen St. East,
TORONTO.**

Headquarters for
Builders' Castings,
Sash Weights, etc.

**THE TORONTO
FURNACE AND
CREMATORY
CO., Limited**

HONORING A BUSINESS MAN.

At a meeting of the town council of Woodstock, N.B., on the 10th inst., the following address was presented to William Fisher, who has been treasurer of the town for nearly twenty years. Mr. Fisher is now the head of the firm of The Small & Fisher Co., foundrymen, etc. His brother, John Fisher, died the latter part of the year, and the bulk of the work of conducting the business thus falling upon him, W. Fisher was obliged to resign his position as town treasurer. He was a competent and painstaking official:

DEAR SIR,—The members of the town council of the town of Woodstock cannot permit you, after having for 19 years or so faithfully discharged the functions appertaining to the responsible position of treasurer, resign your office, without expressing sincere regret at the cause which has impelled this voluntary action on your part, and at the same time of placing on record their full appreciation of the faithful services performed by you, your uniform urbanity, and the very cheerful readiness manifested by you to assist this council and its officials by word and deed, in the administration of town affairs.

The council desires to tender to yourself and Mrs. Fisher heartiest wishes for your future prosperity and happiness.

THE RANGE PEDLAR.

We reprint from the Downer's Grove, Ill., Reporter a new chapter of an old story, a story that ought to have had its final chapter written long ago:

For years and years the local newspapers have been telling of how people have been fleeced and swindled by buying goods and wares of strangers. How sharpers have been able to get money for an article shoddy made and in no way as represented. The warning to their readers and an exposure of these sharpers seems to have had as much effect as a bullet from an air gun against a steel plate. We have come to the conclusion that there is much truth in Barnum's words, "the American people like to be humbugged."

This brings to mind the steel range fellows, who visited this community a year ago and thoroughly canvassed the farmers, selling several stoves. Those who purchased stoves at that time, have now an opportunity of paying the fiddler or dancing to the music. A farmer within a few miles of Sandwich and very well known here, bought one of the stoves, or at least it was left in his possession a year ago. The price agreed upon was \$70. You can buy a larger and better stove of any of our hardware dealers for \$44. A part of the deal was that the farmer was to be allowed \$40 for his old stove, and also he was to board the sharpers, who gave him coupons that were to apply on the purchase price of the stove. These people never consider a deal closed until your name is put upon paper. This farmer did so, signing a contract as he supposed, but which

now turns up in the shape of a note for \$70 with interest. A few days ago a man presented himself at the farmer's house, and requested him to take up the note, representing himself to be a purchaser, and an innocent one, of the note. In the deal made at the time of the delivery of the stove, \$30 was the balance to be paid, and out of the \$30 several dollars for board were also to be taken. The fellow with the note declares he knew nothing of the old stove and tickets for meals in connection with the trade, and refuses to accept anything but the face of the note and interest, which he had bought. The holder of the note threatens to bring suit, and our farmer friend says he will not pay it. What the outcome will be remains to be seen. There is a moral to this deal which should not be permitted to escape the memory of any. Never sign a piece of paper for a stranger, turn the dogs loose upon the sharpers, and buy your goods of the home merchant, who has a reputation to sustain and from whom you can get redress if the ware you purchase is not as represented.—The Metal Worker.

ALCOHOL FOR MOTOR-CARS.

The editor of one of the French cycling papers has been strongly advocating the use of alcohol instead of petroleum spirit for driving motor-cars, on the highly protectionist ground that whereas the latter has to be bought from foreigners, alcohol can be manufactured in France. Some time ago experiments were made with alcohol, which seemed to show that it was much inferior for the purpose to petroleum; but perhaps the experiments which are now being conducted by M. Henriod will be rewarded with better success. M. Henriod is trying a car in which either alcohol, petroleum spirit, or heavy oil can be used.

MIDLAND SMELTING WORKS.

The town of Midland, Ont., wishes to give substantial aid to a big industry and one which the corporation declares should be encouraged. In a bill which Andrew Miscampbell, M.P.P., has charge of in the Local Legislature, they want an agreement ratified and a by-law confirmed between Midland and the Canada Iron Furnace Co., of Montreal, which is to grant a bonus of \$50,000. The company are to erect a large iron smelting works and charcoal kilns, and employ 70 men in connection with the smelter, and 30 or 40 more in cutting wood, with other employment. The company guarantees that the output of the furnace shall average 60 tons of pig iron of a merchantable quality per day. The town asks that they be allowed to issue debentures extending over a period of 40 years.

CATALOGUES, BOOKLETS, ETC.**COMPLETE LIST OF GARDEN TOOLS.**

The hardware dealer who handles the farm and garden tools manufactured by the Geneva Tool Co., Geneva, O., can have no reason to complain of not being able to secure all the various styles of tools manufactured. The list of articles made by this firm is complete, and the catalogue for the present season, issued by this firm, is replete with illustrations of their many unique, as well as all their regular lines of hay, straw and manure forks, hoes, garden rakes, scythe snathes, etc. This catalogue is worth seeing.

THREE GOOD TIRES—ALSO SUNDRIES.

Such is the title of the dainty 1899 catalogue issued by the American Tire Co., Toronto. The three tires, the Goodrich-Resflex single tube, the G. & J. Detachable, and the Morgan & Wright double tube, are standard, so need no description. The list of bells, chains, lamps, handles, hubs, repair kits, pedals, frame protectors, pumps, saddles, clips, vulcanizers, etc., is comprehensive, including many which have won favor and others which are destined to do so. The catalogue is valuable, for the many hints to dealers interspersed through it.

PERSONAL MENTION.

Mr. C. C. Ballantyne, sales manager for Canada of The Sherwin-Williams Paint Co., was in Toronto on Thursday. He had just returned from the company's head office in Cleveland, O., where everything is running as briskly as is the Canadian branch of the business. The manufacturing capacity of the Cleveland works is to be increased in the near future.

OUR SPRING NUMBER.

The special spring number of **HARDWARE AND METAL** will be issued next week, and advertisers, in order to insure change of advertisements, should have their copy in not later than Tuesday.

CANADIAN ADVERTISING is best done by **THE E. DESBARATS ADVERTISING AGENCY**, MONTREAL.

FOR SALE.

FOR SALE—**HARDWARE AND FURNITURE** business in village of 500 population on main line C.P.R., or will take in a tinsmith with \$1,000 capital as partner. New stock. No opposition. Full particulars upon application. Address, Geo. W. Ludlow, Dryden, Ontario. (12)

The _____
DETECTIVE AND CONFIDENTIAL AGENCY.

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employes or Friends.

RETNING COPPER WARE.

By H.F.M.

THE following is written for the benefit of those who, without previous experience in this kind of work, may be called upon to retin copper cooking utensils. At the outset, it is to be kept in mind that only the most careful attention to every part of the work will give good results. The finish obtained on the tinned article will depend on the thoroughness with which every part of the work is done. We will suppose that we have a small portable forge to work on, as it is the best for the purpose. A fire of charcoal or coke is to be preferred, as the heat is more diffused than with coal. Having a bright red fire we will take the articles just as they come to us from the hotel, ship's galley, etc., and, placing them one at a time on the fire, keep turning it until it is heated all over. It is allowed to heat till it turns black inside. We have beside us a quantity of sal ammoniac, which has been pounded into a fine powder, and we sprinkle it a little at a time over the whole inside. Taking a wad of tow, which can be obtained at a ship chandler's or rope factory, or even can be made by teasing out a new rope, we wipe out all the burnt grease, wiping firmly round the inside, taking care to clean around the handle rivets.

We now take our copper off the fire and allow it to cool until we could just bear our hand on it, and then pour into it enough raw muriatic acid to cover the bottom to, say, a depth of half an inch. The acid is swilled around the inside with a rod having a wad of tow tied on the end. It is best to allow the acid to remain in the vessel for a few hours, swilling it, say, once every hour or two as may be necessary. The acid is now poured out to be used again, and the pot is washed in water. With a handful of tow and some wet sharp sand, we now scour the inside, and, if the burning and pickling have been well done, it will be found it is quite clean and smooth. If the work is meant to have a gloss, and have a surface feeling like glass to the touch, it must be scoured a second time with very fine sand that contains no gritty matter. A little experience will enable the workman to pick out such places as will not tin properly or appear rough on the finished articles, and at this stage they must be scraped. The scraper should be broad and sharp, and leave no marks to be seen through the tinning.

Having scoured the outside bright, we wash out in cold water and cover the inside with pounded sal ammoniac diluted with water. The outside is also covered with whitening and salt. Taking a handful of whitening and just covering it with salt will give

about the right proportions. Mix it into a paste with water. The article is now ready to tin, so we put it on the fire and heat it, turning it till it is heated evenly all over. When it has reached the proper temperature, it will melt a few pieces of pure block tin which have been placed in it. We now, beginning at the bottom, with a wad of clean tow, wipe the tin all over it and cover it completely. It is well to sprinkle just a pinch of sal ammoniac on the copper if it does not tin nicely, but we are to remember that the fumes from the sal ammoniac are very apt to cause the job to appear white instead of brilliant. We now turn the pot on its side and wipe the melted tin around a portion at a time till it has covered every part, then wipe the surplus tin with a quick motion into a pan placed beside the fire. It is advisable to have some muriatic acid, which has been cut with zinc, at hand, and to daub it on any spot over which the tin does not flow well, but the hot copper should not be scraped if it can be avoided.

Without allowing the article to cool we put it back on the fire, and with a wad of cotton waste, free from grease but dipped in very fine ashes, we go all over the inside again, beginning in the centre of the bottom and wiping spirally toward the sides. No sal ammoniac nor acid is to be used this time. We wipe the sides with somewhat of a zigzag motion while working gradually around. This part of the work may require a little practice to accomplish the best results. Before the copper has cooled we plunge it into clean, cold water, and wash off the whitening and salt from the outside. The inside should not be touched at all, and care must be taken to change the water frequently, for the least salt, sal ammoniac or acid in the water will turn the inside dark in color.

If the copper has become cold while we were working it off we must immerse it in hot water, and lifting it out quickly dry it outside by rubbing in a box of sawdust. The article should not remain exposed to the air after it has been washed and before it is dried or it will tarnish. It may be necessary to give the outside a second scouring after the article is tinned, if it is found that the sand has left it dull. That, however, depends on the nature of the sand. A good plan to get the proper finishing sand is to wash out the scouring wad in water, and take the sediment that will accumulate in the bottom of the vessel we wash in. If every part of the process is carefully done, with a little practice the workman will have very little difficulty in turning out a good job. The inside and outside will be perfectly smooth and have a nice gloss. — Metal Worker.

BORING HOLES NEAR TOGETHER.

Where it is required to bore two holes of small diameter quite near together (as, for instance, in bicycle chain blocks, where two 5-mm. holes must be only 10 mm. between centres), it is sometimes rather difficult to get both bored at one operation and both parallel and at the precise distance apart.

It can be accomplished by driving a left handed spiral drill direct from a right handed one by very wide faced steel gears shrunk or pinned on the drills, the axes of the gear and drills passing through two flat plates which hit against a stop piece, so that the left handed drill only rotates on its own axis and does not revolve about that of the right handed one. This rig has the disadvantages: 1, That left handed drills are a nuisance about the place (besides costing about 10 per cent. more to make), and, 2, that the pressure on the two drills is unequal, the right handed one getting the thrust of the spindle direct and the left handed one not.

Another way of doing the same thing is where two right handed drills are used, each driven from a gear parallel to and outside (as one might say), these two gears being a trifle more than double the diameter of those on the drill shanks, and being driven by one between them, of the same diameter as themselves, which is on a shank that fits directly into the socket of the drilling machines (or into the chuck, whichever is used).

In either of these rigs it is advantageous to make each of the two very wide faced gears in two parts, butted together end for end, so that a tooth broken or worn at one end may be more cheaply repaired or replaced.—Railroad Gazette.

DEATH OF MRS. W. A. ADAMS.

The news of the death of Mrs. Julia A. Adams, relict of the late W. H. Adams, which occurred on Tuesday morning at her residence, 23 Coburg street, was heard throughout the city with general regret. The deceased was 72 years of age, and had been in poor health for about a year; but pneumonia was the immediate cause of her death. The late W. H. Adams was at one time one of St. John's foremost hardware merchants, and, in 1849, along with S. R. Foster, he started the Georges Street Nail Factory. Mrs. Adams was a sister of the late George F. Smith. Her family consists of three sons, William H., of Boston, and Arthur W. and Charles W., of this city, and three daughters, Mrs. B. C. B. Boyd, Mrs. R. Cameron Grant, and Miss Adams. Mrs. Adams was a very estimable lady, with a wide circle of acquaintances.—Sun, St. John, N.B.

TRADE CHAT.

INTERVIEWED at Winnipeg, Mr. James Smart, Deputy Minister of the Interior, said the immigration prospects were very bright, and the arrivals would exceed those of the previous year. His estimate was that 20,000 British immigrants would come, also 10,000 from the United States, 6,000 to 8,000 Galicians, 8,000 to 10,000 Doukhobors and from 6,000 to 10,000 from other European countries, bringing the total number up to 50,000, and this he looked upon as a conservative estimate.

It is proposed to start a furniture factory in Listowel, Ont.

The Hamilton, Ont., Powder Co., is seeking to increase its capital.

There is a likelihood of the Bloomingdale Furniture Factory moving to Preston, Ont.

There is an agitation for a joint stock carriage manufacturing concern in Lindsay, Ont.

Thousands of acres of fine clay for the manufacture of red brick have been discovered in southern Manitoba.

A lighted cigar stub was dropped into the cellar window of W. H. Hambly's hardware

store in Kingston. The fire was put out before much damage was done.

The St. Lawrence Foundry Co., Toronto, have issued a writ against The Ontario Radiator Co., Limited, for \$5,021.

The Hamilton Furnace Company have closed a lease for iron ore mines on the line of the Kingston & Pembroke Railway, and will commence mining ore at once.

The shipments of the feldspar mines at East Templeton last month, amounted to 800 tons valued at about \$4,000. This large quantity was shipped to Ohio, where there is a brisk demand for the mineral.

The city boiler inspector, Montreal, states that The Canada Sugar Refining Co., which is about to increase its trade, is putting in four new large boilers.

The Montreal Pipe Foundry Co., together with Mr. C. A. Meissner, have leased the works of the old Londonderry Iron Co., situated in Colchester County, N.S. The new company will, like the old, manufacture cast iron water pipe and other cast iron fittings. Mr. Meissner was the general manager of the old concern.

A USEFUL SCHEME.

Merchants everywhere know the annoyances caused by demands to advertise in all sorts of programmes, says an exchange. Such advertising does not pay. Only advertising in legitimate publications is worth paying good money for. The advantages of organization can be utilized to shield grocers and other business men from such annoyances. The Williamsport Merchants' Association has adopted a shrewd plan by which the members may save annoyance from importuning solicitors for advertising in programmes of all kinds, church and other directories. The association adopted a resolution against all such plans of advertising, and each merchant is furnished a card which indicates his obligation, as a member, to stand by the organization's action.

Another carbide factory will shortly be added to the industries of Ottawa. The Bronson-Weston mills, at the Chaudiere, are to become the site of it. Mr. Jas. Sutherland, M.P., is one of the principal promoters. Mr. T. L. Wilson, the inventor of calcium carbide, is associated with him.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, 1½ to 2¾ inches. Price \$1.25 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, = Saint John, N. B., Canada.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, March 17, 1899.

HARDWARE.

The volume of business is steadily expanding and were it not for the fact that jobbers do not want to contract ahead, would be larger. This attitude is due to the phenomenal strength in values on nearly every line of iron material, further advances being noted this week in iron pipe, bar iron, sheet zinc, barbed wire, plain wire, wire nails and cut nails, and, in many other leading lines, though no change is noted from last week, a rise is probable at any moment.

BARBED WIRE—There has been another advance in barbed wire, the base price for which is 15c. higher than it was last week at \$2.70 f.o.b. here. Demand is not particularly active.

PLAIN WIRE—Trade is quiet, but with the increased cost of raw material prices are again advanced. The base price here this week is from 20c. to 30c. higher at \$2.35 to \$2.40 for Nos. 2 and 9 f.o.b. here.

FINE STEEL WIRE—Steady. We quote as follows: No. 17, \$5; No. 18, \$5.30; No. 19, 6.30; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17, with 25 per cent. discount off this list.

BRASS AND COPPER WIRE—Firmly held with a fair demand.

STAPLES—Rule steady, with 1 1/4 to 2-inch galvanized fence staples quoted at \$2.75 per keg of 100 lb. Other staples are as follows: Cooper and poultry netting 15 per cent., and electrician, broom and bed, etc., 10 per cent. discount off regular list, which is an advance of 5 per cent.

WIRE NAILS—Values show another advance this week of from 10c. to 20c., for, while some sellers ask only 10c. rise, the others demand the full 20c., and we quote the base price at a range of \$2.45 to \$2.55; with car lots obtainable at 5c. less money.

CUT NAILS—This line has at last responded to the general strength in the iron list and prices this week are 10c. per keg

higher, the base price now being \$1.85 f.o.b. here. Demand is fair. Flour barrel nails 40 per cent. and cooper's nails 50 per cent. off list.

ESCUTCHEON PINS—Steady; brass 60 per cent. and steel 45 per cent. discount; the latter is an advance of 5 per cent.

BOAT NAILS—Steady; black and galvanized 40 per cent. discount.

GALVANIZED ROOFING NAILS—The list price is 8c. per lb., but discounts have been reduced from 30 to 25 per cent.

PRESSED SPIKES—Steady at 40 per cent. off list.

HORSESHOES—Steady with a fair inquiry. We quote: Iron horseshoes, light and medium pattern, \$3.15; snow shoes, \$3.40; XL steel shoes, new light pattern, all sizes, 1 to 5, \$3.35; featherweight, all sizes, Nos. 0 to 4, \$4.30; and toe weight steel shoes, all forward, \$5.50.

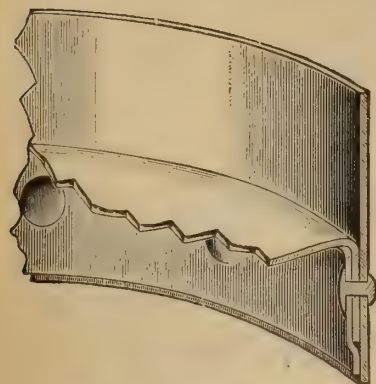
HORSE NAILS—In fair demand and steady: Standard brands countersunk, 50 per cent., and Acadian 50 and 20 per cent. f.o.b. here.

TACKS—Strong carpet tacks, blued or

MILK CAN TRIMMINGS

BROAD HOOP PATTERN

The Strongest Bottom Made.



Cut of section of bottom.

Inner band 1/4-inch above the outside bands.

Cannot tear away.

Nothing to wear away.

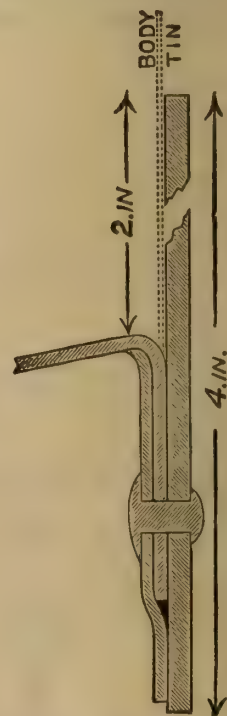
Nothing to break.

No place for dirt to lodge.

The body tin can be inserted 3 1/16-inch into cavity between bottom and outside band.

Solder cannot crack.

Bottom cannot spring.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



Guaranteed—Apollo galvanized iron—every sheet and part of a sheet.

To be perfect.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL Pig IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que. Three Rivers.
Lac a lac Tortue. Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 50 per cent. off; tinned do., \$6 per gross with same discount.

DOUBLE-POINTED TACKS—Have been advanced about 5 per cent., as follows: In dozens, 85 and 30 per cent.; in bulk, 10 per cent. off list.

SCREWS—Firm and a good trade passing. Discounts are as follows: Flat head bright, 85; round head do., 77½; flat head, brass, 77½; round head, brass, 70. Machine screws, iron and brass, flat head, discount 20 per cent.; round head, 15 per cent.

BOLTS—Trade is active in this line, and values firm. Discounts are: Carriage bolts, 5-16, and under are now 60 and 15 per cent. off list; ¾ and larger, 62½. Machine bolts, all sizes are 60 and 15; coach screws, 75 and 10, and sleighshoe bolts, 80 per cent. off list.

RIVETS—Unchanged, with a fair movement. Discounts 65 per cent. on black and tinned, and 37½ on copper rivets.

CORDAGE—The market is firm, but though prices have scored a sharp gain, strange to say no quotable change has transpired in Canadian prices. We quote sisal, 9¼ to 9¾ c. for 7-16 and upwards, and manila, 10¼ to 10¾ c.; smaller sizes, 1c. advance on these figures.

MISCELLANEOUS WIRE NAILS—There is an advance of 10 per cent. in these goods, the discount off the list this week being named at the even figure of 75 per cent., instead of 75 and 10 per cent. as quoted last week.

HINGES—Steady, with quite a good trade moving, heavy T and strap being held at \$4, and light ditto, 70 and 5 off the list.

SHOT—Firmly held at 6c. for ordinary, and 6½ c. for chilled.

CUTLERY—In fair demand.

CEMENT—Unchanged. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Steady and unchanged, at \$18.50 to \$24.

METALS.

There has been some irregularity in the metals, such as copper and tin, but not sufficient to affect spot prices, while all kinds of raw and finished iron material show an advancing tendency, with higher prices actually established in several instances.

PIG IRON—This market is very firm at the advance quoted, and prices have an upward tendency. Stocks of Scotch pig here are almost exhausted, and are practically controlled by one operator. In Canadian pig, some fair contracts have been put through at steady prices. We quote: Canadian brands, \$16 to \$16.50, and Scotch iron, \$21 to \$21.50.

**Ingot Tin
Copper
Spelter
Pig Lead**

Close prices on carload lots.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS
JUST BORE

NO SCREWS
FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

BAR IRON—The increasing cost of raw material has led to another advance of 10c. per 100 lb., and we now quote \$1.55 to \$1.60, according to quantity. Demand is brisk.

HOOP IRON—The strength noted last week is maintained, and, though no quotable change is noted, a rise is probable at any moment. We quote \$2.45 base.

SHEET IRON—Very firmly held. We quote as follows: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Unchanged, but quite firm. We quote: 10 to 16, \$2.60; 18 to 20, \$2.40; 22 to 24, \$2.45; 26, \$2.65; and 28, \$2.70.

SLEIGHSHOE AND TIRE STEEL—Stiff at the rise, \$1.85 base for the former and \$1.90 for the latter.

GALVANIZED IRON—No further change is noted in this line, but, with a good inquiry and small stocks, another advance is not improbable. We quote: No. 28 "Queen's Head," \$4.35 to \$4.60, and "Comet" \$4.10 to \$4.35.

INGOT COPPER—Unchanged at 18½c.

SHEET COPPER—The same, at 25c. for plain and 27c. for tinned.

INGOT TIN—The unsettled tendency outside has not affected the jobbing range here yet, and we quote 26½c.

PIG LEAD—For ordinary jobbing lots 4½ to 4¾c. is still asked.

LEAD PIPE—Firm, with a good inquiry. Ordinary, 7c., and composition waste 7½c., with discount 17½ per cent.

IRON PIPE—This material is very unsettled, with an excited feeling as regards prices, some makers refusing to quote. Prices are fully 20c. higher, as follows: Black pipe, ¼-inch, \$2.90; ⅜-inch, \$2.90; ½-inch, \$2.75; ¾-inch, \$3.10; 1-inch, \$4.40; 1¼-inch, \$5.90; 1½-inch \$7.15, and 2-inch, \$9.70. Galvanized pipe, ¾-inch, \$5.55; ½-inch, \$5.90; ¾-inch, \$6.55; 1-inch, \$8.95; 1¼-inch, \$12.40; 1½-inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATE—Active and strong in tone. We quote as follows: 52's, \$2.20 to \$2.25; 60's \$2.30 to \$2.35; 75's, \$2.40 to \$2.45; full polished, \$3.10; galvanized Canada plate, \$4.00 for 52's.

TINPLATES—Brisk demand, but trade light, as sellers are cautious. We quote as follows: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Fairly active and steady at \$6.25 per 100 lb.

COIL CHAIN—Firm at last week's rise. We quote as follows: No. 6, 9¾c.; No. 5, 8¾c.; No. 4, 7½c., and No. 3,

6½c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ⅝, \$3.25; ¾, \$3.15, and ⅞, \$3.00 per 100 lb.

SHEET ZINC—Stocks here are almost exhausted, and sellers have marked up prices ¼ to ½c. to 8 to 8½c., as to quantity.

ANTIMONY—Steady at 10 to 11c.

SPELTER—Quiet. V.M., \$6.75; S.S., \$6.50.

SWEDISH IRON—Firm at \$3.75 base.

GLASS.

Window glass continues in good demand. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The only really new feature in this branch is a decline of 1c. per gallon in linseed oil, the result of local competition, the quotation at the mills being very firm. Turpentine is without change, but the tendency is decidedly upwards. The approach of spring combined with the general hardening of prices has revived the demand for paris green which is now being actively shipped out. The general position of colors and paints continues favorable.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½c.; in oil, pure, 8c.; No. 1, 6½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 49c.; boiled, 52c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages,

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
Glass Cloths and Papers, etc.

Wellington Mills, London, England

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CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading, Pitman's or Munson's Shorthand, per month, \$4.00, White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.



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**Bicycle Plates
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Everything in the stamp line.

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With Steel Trays (Pan American).

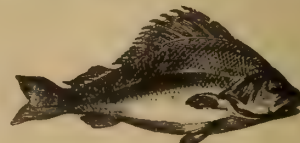
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**Meaford Wheelbarrow Works
CLELAND BROS. & CO.**

Fishing Tackle.



ALLCOCK'S STAG BRAND

goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

The Alcock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

15c.; $\frac{1}{2}$ -lb. packages, 16 $\frac{1}{2}$ c.; 1-lb. tins, 15 $\frac{1}{2}$ c.

PETROLEUM.

In good demand. We quote as follows: "Crown Acme," 15 $\frac{1}{2}$ c., Canadian refined, 14 $\frac{1}{2}$ c.; United States prime white, 17c.; water white, 18c.; Pratt's astral, 19 $\frac{1}{2}$ c.

ASHES.

Steady. We quote: First pots, \$4.40, and seconds, \$4.15.

HIDES.

Unchanged. We quote: Beef hides, No. 1, 9c.; No. 2, 8c., and No. 3, 7c. Calfskins, 9c. for No. 1, and 7c. for No. 2. Lambskins, 70c. each.

MONTREAL NOTES.

Linseed oil has declined 1c. on last week. Bar iron has been advanced 5 to 10c. per 100 lb.

Wire nails are from 10 to 20c. higher than they were, also plain wire.

Cut nails have at last responded to the general strength, being 5c. higher.

Sheet zinc, as a consequence of light stocks, is $\frac{1}{8}$ to $\frac{1}{4}$ c. per lb. higher.

Values on iron pipe, both black and galvanized, are excited and much higher.

ONTARIO MARKETS.

TORONTO, March 17, 1899.

HARDWARE.

THE wholesale hardware trade during the past week has been in a good condition. There has been a good volume of business, and further advances in prices have taken place. Wire nails are now up to \$2.55 base, and cut nails have been advanced 10c., the base price now being \$1.85. Barbed wire and staples have been advanced 25c. per 100 lb. Smooth steel wire is 15c. per 100 lb. dearer. Business in wire nails is not very brisk, on account of orders previously placed by retailers to protect themselves against the advance. At the same time, however, there are quite a few going out. Barbed wire is in fairly good demand for future shipment, while horse nails and horseshoes are quiet. Screws are meeting with a good demand, and so are bolts. There is a moderate business being done in rivets and burrs. Rope continues quiet and unchanged in price. Building paper is in fair demand. Fairly good business is reported in belting. Sap buckets are going out freely and there is a fairly good business being done in wire. As is noticed elsewhere, woodenware has been advanced in price by the Canadian manufacturers. The price of English tower bolts is quoted higher by manufacturers.

BARBED WIRE, ETC.—A further advance of 25c. per 100 lb. is announced this week,

DO YOU NEED

Eave Troughs?

Prices are now 12 per cent. higher than they were, and are still advancing.

Serve your own interests by ordering at once.

In addition to our many stock lines we make any special pattern to order—we use only the best Galvanized Steel Plate, and you're always sure of perfect quality and fit.

Look over our catalogue and order now—there's wisdom in haste when prices are advancing.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.

and quotations are now as follows, f.o.b. Toronto: Barbed wire, \$2.75 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.75. Staples are quoted at \$3 for galvanized, and \$2.75 for bright. Terms, 2 per cent. off 10 days. There is a fairly good business being done for future delivery.

SMOOTH STEEL WIRE—Business is rather quiet, but a further advance is to be noted in price, the base figure now being \$3.45 f.o.b. factory.

FINE STEEL WIRE—This is also quiet, and the discount is 25 per cent. factory.

WIRE NAILS.—Quite a marked advance is to be noted this week in the price of wire nails, the base figure now being \$2.55 per keg, Toronto and west, and \$2.50 east of Toronto. The demand for wire nails is fair. No large lots, however, appear to be moving.

CUT NAILS.—These at last show an advance of 10c. per keg in the base price, the figure now quoted being \$1.85 per keg f.o.b. Toronto, Hamilton and London with 5c. per keg rebate.

HORSE NAILS.—There is not much doing, but prices are unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—There is also very little doing in this line. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax.

SCREWS—A good business is still to be noted in these at quotations. We quote as follows: Flat head bright, 85 per cent. off the list; round head bright, 77 $\frac{1}{2}$ per cent.; flat head brass, 77 $\frac{1}{2}$ per cent.; round head brass, 70 per cent.; flat

head bronze, 70 per cent.; round head bronze, 65 per cent. Terms, 4 months or 3 per cent. 30 days.

BOLTS—Trade in this line keeps fairly active, with prices as before. We now quote as follows: Common carriage 5-16 and under, 60 and 15 per cent.; ditto, $\frac{3}{8}$ and larger, 62 $\frac{1}{2}$ per cent.; machine bolts, all sizes, 60 and 15 per cent.; coach screws, 75 and 10 per cent.; sleighshoe bolts, 80 per cent.; blank bolts, 60 and 15 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; bolt ends, 60 and 15 per cent.; nuts, square, 4 $\frac{1}{2}$ c.; ditto, hexagon, 5c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—There is a moderate business being done, but there is no particular feature worthy of note. We quote: Carriage section, wagon box rivets, etc. (steel), 65 per cent. off the list; ditto (Norway iron), 60 per cent.; black M rivets, (steel) 65 per cent.; ditto (Norway iron), 60 per cent.; iron burrs, 55 and 5 per cent.; copper rivets, 37 $\frac{1}{2}$ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The outside markets rule steady to strong in hemp, both sisal and manila, but no change has taken place in the manufactured product. We quote: Sisal, 7-16 in. and larger, 9 $\frac{1}{4}$ c.; $\frac{3}{8}$ in., 9 $\frac{3}{4}$ c.; $\frac{1}{4}$ and 5-16 in., 10 $\frac{1}{4}$ c.; Manila, 7-16 in. and larger, 10c.; $\frac{3}{8}$ in., 10 $\frac{1}{2}$ c.; $\frac{1}{4}$ and 5-16 in., 11c.; deep sea line, 13 $\frac{1}{2}$ c. for water laid, and 14 $\frac{1}{2}$ c. for machine made; hemp, 7 to 9c.; lath yarn, 8 $\frac{3}{4}$ c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business is fair and prices unchanged. We quote delivered from

stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Business is fairly good in this line, and prices are unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH Prices are firm and steady. We still quote \$1.20 per 100 square feet.

POULTRY NETTING—There is still some business being done at a discount of 50 and 5 per cent.

WARE—There is still a fair trade being done in all lines of enameled ware, and in tinware, especially pressed for dairy purposes, there is a good business being done. Prices in tinware are firm, and it is quite likely that higher figures will rule before long.

SAP BUCKETS—Although the season is pretty well advanced, the manufacturers are still very busy in this line.

EAVETROUGHS—This line is also going out freely at the recent advances in prices. We quote as follows: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

STOVES—An advance of 10 per cent. has taken place in the value of stoves, but as the old terms of delivery have been restored, the advance is really only 6 to 10 per cent. The price in the United States has also been advanced 10 per cent.

MILK CAN TRIMMINGS—Business is moderate at 25 and 10 per cent.

CEMENT—A good trade is reported. Prices are steady and unchanged. We quote in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.80 to \$3; German do., \$3; Belgian do., \$2.50; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The price of pig iron in the United States has advanced materially during the past week, and there is a stronger feeling all round, in consequence. Copper and tin have both been somewhat irregular, although during the last couple of days the market for both these has been showing a little firmer tendency again. Iron pipe is much dearer. Another advance of 5c. per 100 lb. is to be noted in the price of bar iron.

BAR IRON—There has been a further advance of 5c. per 100 lb. in the price of this, and we now quote \$1.60 from stock and \$1.50 from factory.

BLACK SHEETS—Trade is picking up, a fairly good business now being reported. We still quote 28 gauge at \$2.85.

GALVANIZED IRON—The trade appears to be pretty well stocked up, having bought in expectation of an advance. Jobbers, there-

fore, are not expecting much business for a while, until some of the stocks now on hand are worked up. There is, however, a fair business being done. Some of the jobbers who had not been following the market are now doing so more closely. We quote: "Queen's Head," 28 gauge, \$4.65 per 100 lb. American makes, 28 gauge, \$4.50 per 100 lb.; "Gordon Crown," 28 gauge, \$4.50 per 100 lb. Less than case lots 25c. per 100 lb. additional.

COPPER—The market has shown some weakness during the past week, but during the last couple of days there has been a steadier feeling. We quote: Ingot copper at 18¾ to 19¼c. per lb.

PIG TIN—The market for this has been somewhat irregular, but more favorable cable advices from London gave the market a steadier feeling, although this was somewhat discounted by the shipments which arrived in New York. No change has been made in local quotations, and the demand here is fairly good. We quote 27½c. for Straits and 28c. for Lamb and Flag.

TIN PLATES—Trade is fairly good and prices firm, ordinary brands of charcoal being quoted at \$3.60 per 100 lb. for I.C.

CANADA PLATES—A few sales are reported, but they are chiefly on import account. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2.60, and all bright, \$3.10 per 100 lb.

PIG LEAD—Prices are firm in pig lead, but there is not much business being done. We still quote imported at 4¼c. per lb.

LEAD PIPE—The increase in trade noted last week appears to have been maintained. We quote: Ordinary pipe, 7c.; waste, 7½c. Discounts, 17½ per cent.

IRON PIPE—Quite an advance has taken place in this during the past week, our quotations on both wrought and galvanized pipe being considerably higher. We quote: ¼, ⅜ and ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch, \$4.50; 1¼ inch, \$6; 1½ inch, \$7.40; 2 inch, \$9.90; larger sizes 70 per cent. discount. Galvanized pipe: ¼, ⅜ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—Business is fair at the recent advance. We quote: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

TINNED IRON—We quote: 30 x 72 (24 gauge), 6c. per lb.; cut sizes, 5¼c. per lb.

COIL CHAIN—The market for coil chain continues firm, and, as jobbers have not aken full advantage of the recent advances of the manufacturers, it is not at all unlikely that their prices will, before long, be marked up. We quote as follows: ¼ in., \$6.50; 5-16 in., \$4; ¾ in., \$3.60; 7-16 in., \$3.40; ½

INTERCOLONIAL RAILWAY.

TENDERS FOR GRAIN ELEVATOR AND WAREHOUSE.

Separate Sealed Tenders, addressed to the undersigned, and marked on the outside "Tender for Grain Elevator," or "Tender for Warehouse," as the case may be, will be received at this office until 5 o'clock p.m., eastern standard time, on SATURDAY, MARCH 25th, 1899, for the erection of a Grain Elevator at St. John, New Brunswick, and for the erection of a Freight Warehouse on the new Terminal Wharf now under contract at that place.

Plans and Specifications may be seen and Forms of Tender may be obtained on and after the 28th day of February, 1899, at the Office of the Chief Engineer of the Intercolonial Railway, at Moncton, N.B., and at the Engineer's Office, St. John, N.B.

In the case of Firms, the Tender must bear the actual signature of the full name, the occupation and residence of each member of the firm.

All the Conditions of the Specifications, including those requiring a security deposit with each Tender, must be complied with.

Tenders must be made on the Printed Form supplied.

The Department does not bind itself to accept the lowest or any Tender.

D. POTTINGER,
General Manager.
Railway Office,
Moncton, N.B., Feb. 27th, 1899. (11)

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.

Spramotor Company,

London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,

W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsthy, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
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in., \$2.35; $\frac{3}{8}$ in., \$3.15; $\frac{1}{2}$ in., \$3.05. There is a fairly good business being done.

SHEET ZINC—Trade is quiet and featureless. We quote: 5-cwt. casks, 8c. per lb.; part casks, $8\frac{1}{4}$ c. per lb.

ZINC SPELTER—The market continues firm, but without any change. We quote $7\frac{1}{4}$ to $7\frac{1}{2}$ c. per lb.

SOLDER—There is a little selling but prices are unchanged. We quote as follows: half and half, $16\frac{3}{4}$ to $17\frac{1}{4}$; refined, $16\frac{1}{4}$ to $16\frac{1}{2}$; wiping, $15\frac{3}{4}$ to 16.

ANTIMONY—The market continues firm and cables from London show an advance there of £1. during the week. We still quote 11 to $11\frac{1}{2}$ c. per lb.

PAINTS AND OILS.

Though there is a considerable movement, business is quieter than noted a week or so ago. A general firmness in tone is noted. Turpentine is up again in the south, so the advance noted here last week is well maintained. Linseed oil is steady. There is a scarcity of whiting, and as none is expected till the opening of navigation, a shortage is bound to occur. An advance of 5c. has resulted because of these conditions. The high price of turpentine has caused an advance of 20 to 25c. in the best grades of varnish, including No. 1 carriage, furniture, brown japan and elastic oak varnishes. Leads are moving steady, with the advance noted some weeks ago well maintained. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62 $\frac{1}{2}$; No. 2, \$5.25; No. 3, \$4.87 $\frac{1}{2}$; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to $6\frac{1}{2}$ c.; orange mineral, $7\frac{1}{2}$ to $8\frac{1}{2}$ c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; 55c. per 100 lb. in 5-barrel lots. Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, $9\frac{1}{2}$ c. per lb. and $10\frac{1}{2}$ c. for single tins; United

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.

5 Factories.

5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of POLISHED PLATE, SILVERED PLATE, BEVELED PLATE, CHEQUERED PLATE, AND ROUGH PLATE GLASS. BENDERS AND BRILLIANT CUTTERS. Estimates and designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street—London, E.C.—123 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass," St. Helens. Telephone No. 68 St. Helens.

States, in cases, $8\frac{1}{2}$ c., and $9\frac{1}{2}$ c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 52c.; boiled, 1 to 4 barrels, 55c. Prices in Toronto, Hamilton London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 69c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

OLD MATERIAL.

A firm feeling is noted throughout. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, $42\frac{1}{2}$ c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 8c.; heavy yellow scrap brass, 10c.; heavy red scrap brass, 11c.; scrap lead, $2\frac{3}{4}$ c.; zinc, 3c.; scrap rubber, 5c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

GLASS.

Stocks are steadily becoming depleted, and a fairly brisk demand is noted; present prices are well maintained. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

HIDES, SKINS AND WOOL.

HIDES—Prices have declined $\frac{1}{4}$ c., and the market is weak, with a further decline anticipated. We quote cowhides as follows: No. 1, $8\frac{1}{4}$ c.; No. 2, $7\frac{1}{4}$ c.; No. 3, $6\frac{1}{4}$ c.; Steer hides are worth $\frac{1}{4}$ c. more. Cured hides are worth 9c.

SKINS—We quote calfskins nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins and lambskins are steady at 90c. to \$1.

WOOL—The market is weak. A decline of 1c. is noted. Fleece is now quoted at 14 to 15c., and unwashed at 9c.

SEEDS.

The market is dull. Red clover is still quoted at \$3 to \$3.25, at outside points. Alsike has declined 25c., dealers now refusing to pay more than from \$2.50 to \$3.50, except for exceptionally choice samples.

PETROLEUM.

A good business is reported. Prices are unchanged. We quote in barrels at Toronto: Canadian, $13\frac{1}{2}$ c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, $15\frac{1}{2}$ c.; American water white, $16\frac{1}{2}$ c.; Pratt's astral, 18c.

COAL.

Small sizes are scarce. Prices are firm. We quote anthracite at Buffalo and bridges as follows: Egg, nut and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

English tower bolts are 5 per cent. dearer. Turpentine varnishes have advanced 20 to 25c. per gal.

The stove manufacturers have advanced prices 10 per cent.

Whiting has advanced 5c., and is now selling at 60c. per 100 lb.

The base price of smooth steel wire has been advanced 15c. per 100 lb.

The price of woodenware has been advanced by the Canadian manufacturers.

A sharp advance in the price of both wrought and galvanized iron pipe is to be noted.

The base price of wire nails has been advanced to \$2.55 per keg, and, of cut nails, to \$1.85.

J. T. Craig, Toronto agent for D. K. McLaren, leather belting, has secured the contract for supplying The Warren-Scharff Paving Co., Toronto, with leather belting for its new plant on Eastern avenue.

The Hamilton Brass Manufacturing Company, Limited, of Hamilton, manufacturers of the Hamilton Cash Register, have opened up a Montreal branch at 1782 Notre Dame street. This makes the third Canadian branch of this company.

MANITOBA MARKETS.

WINNIPEG, March 14, 1899.

BUSINESS is very active in all lines, and wholesale houses are very busy. A number of prices have changed during the week, and all are advances, excepting rope, which has dropped another 1c. It is anticipated that rope has reached rock bottom, and that an advance may be looked for in the near future.

The very sharp advance in nails will mean a great deal to the building trade of Winnipeg.

Bluestone has advanced, and is selling for 5c. per lb. The demand has been very heavy, and those who did not secure a supply early in the season are likely to have difficulty in getting what they want, as Winnipeg supplies are nearly exhausted.

Price list of the week is as follows:

Barbed wire, 100 lb.	\$3 00
Plain twist	3 00
Wire and staples	3 50
Oiled annealed wire	10 20
"	11 30
"	12 25
"	13 30
"	14 30
"	15 30
Wire nails, 30 to 60 dy, keg	3 00
" 16 and 20	3 05
" 10	3 10
" 8	3 15
" 6	3 20
" 4	3 40
" 3	3 65
Cut nails, 50 and 60 dy	2 40
" 20 to 40	2 45
" 10 to 16	2 50
" 8	2 55
" 6	2 60
" 4	2 85
" 3	3 10
" 3 fine	3 40
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.10 basis	
Swedish iron, \$5 basis	
Tool steel, Black Diamond, 100 lb	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lb	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 gauge	3 75
18 to 22 gauge	4 00
24 gauge	4 25
26 gauge	4 50
28 gauge	4 75
Genuine Russian, lb	12
Imitation	8
Tinned, 24 gauge, 100 lb	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 00
Ingot tin	29
Canada plate, 18 x 21 and 18 x 24	3 25
Sheet zinc, cask lots, 100 lb	8 50
Broken lots	9 00
Pig lead, 100 lb	4 25
Wrought pipe, black, 1/4 inch	2 75
" 3/4 inch	3 00
" 1 inch	3 75
" 1 1/4 inch	4 25
" 1 1/2 inch	5 75
" 2 inch	7 75
" Over 2 inch	9 50
Rope, sisal, 7-16 and larger	10 00
" 3/4	10 50
" 1/2 and 5-16	11 00
Manilla, 7-16 and larger	11 50
" 3/4	12 00
" 1/2 and 5-16	12 50

Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, 10 and 5 p.c.
Round	75 p.c.
Flat " brass	77 1/2 p.c.
Round " "	70 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels	40 p.c.
Harvest tools	60 to 60 10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	57
boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's 12 gauge, M.	16 00
American, M.	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled	7 00
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	70 and 30 p.c.
Granite ware, according to quality	50 to 60 p.c.

UNITED STATES TINPLATE BARS IN BRITAIN.

An English newspaper says: "Considerable quantities of American tinplate bars have lately been delivered in South Staffordshire and in South Wales, both for the sheet and the tinplate industries. The bars have not always been bought because they were cheaper than English. As a matter of fact, they have been bought both cheaper and dearer than British bars of even date, but they are rather softer than English steel, and are to some extent preferred by the workmen. Then, again, they are of a more convenient size, being 10 inches wide, instead of 7 inches, as in the case of English bars. It would probably be worth the while of British manufacturers of tinplate bars to consider whether a wider bar would not be more generally approved by their customers. The American bars have to pay 8s. freight to New York, and usually 15s. freight across the Atlantic, with 8 to 12s. freight from British ports to the Midland manufacturing centres, so that there are 31 to 33s. transportation charges upon them before they reach the consumers."



Get at least one of your wheels fitted with the new G. & J. Detachable.

This detachable gives the dealer no trouble after it is once sold.

There is no trouble for the rider. The edge is soft. The G. & J. goes on easily.

It cannot slip off the rim because it grips the rim at the second groove.

Get our Booklet this year.



American Tire Co., Limited,
166 King St. W., Toronto.

THE ONTARIO LANTERN CO.

Manufacturers of

HAMILTON, ONT.

Lamps, Lamp Burners and Fixtures,
Incandescent, Electric Light and Gas Burners,
Special Railroad Lamps and Lanterns.
Also Sheet Brass Specialties (stamped or drawn to order).

Estimates Given on Contracts.



We are now in a position to
fill orders for our—

"VICTOR" ACETYLENE
GAS BICYCLE LAMP.

(11)

Walter Grose

Sole Selling Agent, MONTREAL.

MAN AND METALS.

When and where man first discovered the use of metals is a yet unsolved problem. Even during the earlier stone period, as long, perhaps, as 2,000 to 3,000 years before our era, metal was in use. Copper and gold were probably the first metals utilized in Europe. Some time after this, bronze and iron began almost simultaneously to be employed. The art of working these metals may have been brought from Asia into Europe. The northern archaeologists are, no doubt, right in dividing the metal time into a Bronze and an Iron Age (or into an earlier bronze period and a later one when the use of iron, too, was known). But bronze and iron are found mixed together in Central and South Europe, in most cases in such a manner as to make it difficult to separate a prehistoric Bronze from a prehistoric Iron Period. To the Metal Period, understood in this way, belong the later Lake-dwellings of the Alpine district, principally those of Western Switzerland, the numerous remains of old dwelling-places (ash-fields, refuse heaps, the "Terramare" [from Terra mara, earthy marl]) in Upper Italy, of places of offering, of fortified places (Round Wall, Long Wall, etc.) and of burial grounds. They are widely spread over the whole of Central and Northern Europe, and must be ascribed to those people of Aryan race (Celts or Gauls, Germans and Slavs) who inhabited Central and Northern Europe during the period which immediately preceded the Roman invasion and colonization in the time of Rome's imperial power. The richest discoveries have been made in the burial-places. Through the whole of Central Europe and as far as Asia the most widely-spread forms of tombs of the Metal Age are those of the mound-graves or tumuli * * * Some are made by simply throwing up the earth; others are made entirely of stones; others, again, are enveloped or roofed with stones. Bodies were buried as often as they were burned. When burned the ashes were put into urns. The grave is placed in the mound sometimes over and sometimes under the surface of the natural soil, and is often surrounded by stones, which are put together either in the shape of a stone cone or of a low stone chest. Very often the urn is only covered with a stone slab. Wooden coffins, too, made out of hollow trunks, are to be found. The tombs are always enriched by the addition of numerous articles, consisting of the ornaments, weapons, and tools of the dead.—From Our Earth and its Story for March.

A letter from A. P. Law, of the Geological Survey staff, who is wintering on Hudson Bay, confirms previous reports of the existence of deposits of magnetic iron ore on the shores of the Bay.

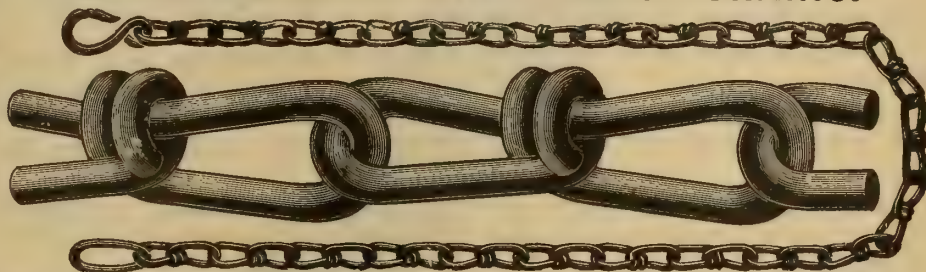
We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

Boeckh

Please remember one thing—when the prices of raw materials advance it does not find us unprepared to serve your interests and serve them well. We buy direct in large quantities from the producer and anticipate our needs for months ahead. If prices rise we can still give you our usual high quality in our Painters' Brushes at no additional cost, and we are glad to have it so.

Thus do we try to obtain your good-will—without it a business gets into ruts which pull it down. Have you seen our Patent Bridled Brush for Painters? We have an illustrated book telling all about it—send for it, it is free.

Brushes

Boeckh Bros. & Company, Mfrs.
Toronto, Ont.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

ASSIGNMENT has been demanded of Henri Roberge, general merchant, St. Evariste Station, Que.

C. A. Ouellet, general merchant, Cap St. Ignace, Que., has assigned.

H. J. Clare, general merchant, Solsgirth, Man., has assigned to A. E. Scott.

V. V. Fiset, general merchant, Ancienne Lorette, Que., is offering 25c. on the dollar.

J. B. Ryan, harness dealer, Bonfield, Ont., has assigned to J. McKenna, North Bay.

Joseph A. Merrick, general merchant, Virden, Man., has compromised at 65c. on the dollar.

Samuel Richardson, contractor, Clara Township, Ont., has assigned to William Moffatt.

A. Desmarteau has been appointed curator of Provost & Fleury, hardware dealers, Montreal.

Sadlier Bros., general merchants, Wiar-ton, Ont., have assigned to C. B. Armstrong, London.

Warren Millard, manufacturer of tiles, Colchester North Township, Ont., has assigned to Thos. J. Wagner.

Petition for winding-up order has been granted the creditors of The La Prairie Pressed Brick and Terra Cotta Co., Montreal. The creditors and shareholders meet on the 21st inst.

PARTNERSHIPS FORMED AND DISSOLVED.

N. & N. Gerry, hardware dealers, etc., Brussels, Ont., have dissolved.

Z. Cotu, Fils & Co., general merchants, Chambly Canton, Que., have dissolved.

Artiste Boisvert and Arthur Mainville have registered as proprietors of The Montreal Plating Co.

Cameron & Chisholm, general merchants, Port Elgin, Ont., have dissolved, John H. Chisholm continuing.

R. C. Smith, tinsmith, Innisfail, N.W.T., has admitted R. M. Miller, under the style of Smith & Miller.

Fraser & Walton, implement dealers, Emerson, Man., have dissolved. W. Fraser continues, admitting C. Aime.

Bouvier & Belair, fire escape manufacturers, Montreal, have dissolved, and a new partnership has been registered.

C. W. Sheppard, hardware dealer, etc., Leduc, N.W.T., has admitted — Elliott, under the style of Sheppard & Elliott.

Enoch and Henry R. Buzzell have registered partnership under the style of Buzzell Bros., general merchants, Cowansville, Que.

Louis F. Payan and Emerson S. Fee have registered as partners under the style

Fee & Payan, bicycle dealers, St. Hyacinthe, Que.

Kyle & Squire, hardware dealers, Wiar-ton, Ont., have dissolved, Benjamin Squire retiring and E. H. Squire admitted under the old style.

Gilbert M. Moulton and Luther G. Moulton have registered as partners under the style of Moulton Bros., carriage and furniture dealers, etc., Coaticooke, Que.

Lewis Bros. & Co., wholesale hardware dealers, Montreal, have dissolved, and a new partnership has been registered by Fred. O. Lewis and James G. Lewis.

The partnership existing between C. R. McDowell and G. A. Pattison as commission paint and dye dealers, Montreal, has been dissolved, C. R. McDowell continuing.

SALES MADE AND PENDING.

Harkley Bros., tinsmiths, etc., Toronto, are advertising their business for sale.

The assets of E. Crete, general merchant, Grande Piles, Que., are to be sold on the 17th inst.

The assets of P. Neven & Co., general merchants, Lachine, Que., are to be sold on the 22nd inst.

The stock of Valiquette & Larive, general merchants, Ste. Adele, Que., has been sold at 53c. on the dollar.

CHANGES.

O. S. Moore is opening a general store in Olds, N. W. T.

T. Dunlop, blacksmith, La Riviere, Man., is starting to handle implements.

John Ewens, harness dealer, etc., Huntsville, Ont., is giving up business.

The Hugman Window Shade Co., Montreal, is removing to Granby, Que.

Wm. J. Burns, general merchant, Lyndhurst, Ont., is retiring from business.

Pigeon & Co., general merchants, Plantagenet, Ont., are removing to Ottawa.

S. G. Vance, general merchant, Nithburg, Ont., has removed to Rockford, Ont.

James Thomson, general merchant, Papineauville, Que., has removed to Buckingham.

Matheson & Glover are advertised to open a general store in Lyndhurst, Ont., this week.

Napoleon Dussault, general merchant, L'Islet, Que., has purchased F. Gagon's stock.

M. Richardson & Co., general merchants, Flesherton, Ont., are opening a branch at Dundalk, Ont.

Stoneman Bros., general merchants, Kirkton, Ont., have been succeeded by Walkum & Chappell.

R. O. Hoffman, general merchant, Quinn, Ont., has sold out to John Kelly, who takes possession on April 1.

Joseph H. Trudel has registered as pro-

prietor of J. F. Trottier & Cie., general merchants, Grand Mere, Que.

R. B. Fisher, hardware dealer, Gretna, Man., is removing his stock to Carman, Man.

Wm. Helps, blacksmith, Oil Springs, Ont., has been succeeded by Knittle & Willoughby.

George Sherson, sawmiller, Fairview, B.C., has sold out to Camp McKinney Township Co.

Warde & Hamilton, hardware dealers, Peterboro', Ont., have been succeeded by Warde & Hall.

James Allan, wagonmaker and blacksmith, Burlington, Ont., has been succeeded by Webber & Tuck.

Charles H. Whitcher, painter, Corleton Place, Ont., has sold out to McAllister Bros., and has gone to Ottawa.

FIRES.

J. H. Knapton & Co., general merchants, Bedford, Ont., have been burned out.

A Bean & Co., general merchants, Manchester, Ont., have been burned out.

A. Learmonth & Co., foundrymen, Quebec, have been partially burned out; insured.

FIRST SMELTER ON THE COAST.

The first smelter on the coast of British Columbia promises to be in operation this summer, for the Van Anda Co., of Texada Island, have decided to proceed at once with the erection of the plant shipped from the east. The work of getting the site ready has been proceeding for some time, and the actual construction of the building will be commenced in a few days. The ore will be matted for shipment, thus saving much in transportation charges. A vast quantity of ore is on the dump and the shipments made to Swansea, Wales, gave gratifying results.

Most of the mines are now working on the Island and this year promises to see many of them regular shippers. Suspension of work was only temporary and of only a few days' duration. H. W. Treat has gone up to Van Anda to superintend the work for the smelter.

A WATERWHEEL ORDER GOES TO THE UNITED STATES.


Despite Canadian and other foreign competition, a large waterwheel contract has been secured in Canada by an American manufacturing firm. Recent orders have been received for engines from various parts of the world. British merchants are endeavoring to increase trade in Mexico by giving extended credit. The improvements of the port of Vera Cruz are extensive and nearly ready. Trade with Brazil and Porto Rico is only moderate in both instances.—N.Y. Journal of Commerce.

If you sell Files

you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
any other, send
them back.



The Arcade
Files are the
only files in the
market with Weed's
Improved Patented In-
crement Cut, and are made
in the best equipped file works
in the world. We've been mak-
ing files fifty-seven years and cer-
tainly know how.

THE ARCADE FILE WORKS

ESTABLISHED 1842.

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

WORKS:
Anderson, Ind.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

HEATING AND PLUMBING

DEFECTS IN THREADS ON WROUGHT IRON PIPE.

By R. T. Crane, of Chicago.

UNDoubtedly you will be surprised when we say that no material of equal importance and of such universal use by men of general intelligence is so absolutely misunderstood as this. The amount of labor and material thrown away under a misapprehension of this question is enormous. It seems astonishing that at this late day there should be so much stupidity in this business. We have recently been studying and experimenting on this subject, and might say that we are astonished at our own stupidity up to this time in regard to it.

FLAT THREADS.

The general run of steamfitters will discard material on account of the threads being a trifle flat. If one will only stop to reason out this matter he will see how absurd this idea is. The entire thread on the pipe must be flat, in order to conceive of a leak being produced, and then the leak must traverse the circumference of the pipe as many times as there are threads in contact.

Now, it might be possible to have a leak under these circumstances if no cement were used; but with the use of any cement, or without cement, but with the smallest particle of perfect thread, this could not occur.

SMALL GROOVES.

With regard to the small grooves that sometimes occur in threads, due to the weld not being perfectly brought up, this is another feature on account of which an immense amount of threading is rejected. It will be seen, upon a little reflection, that this groove could not possibly produce a leak unless it ran the entire length of the thread contact, and in depth went below the bottom of the thread.

BROKEN THREADS.

Another cause of rejection of material is where the threads have been broken off a little. Probably not so much as one per cent. of the whole bearing of the thread is gone, yet the wise (?) steamfitter will throw out this material. This is also an absurd theory, there being a large factor of strength in the length of all threads, as we know from tests that we made some time ago with an 8-inch coupling. We cut away all the thread excepting $\frac{3}{8}$ inch, thereby leaving only about one-fifth of the ordinary bearing of that size thread, after which it

was put under a pressure of 1,000 pounds without a leak.

It is no doubt the common practice of steamfitters and engineers to reject threads where only one per cent. are broken. The utter absurdity of this is shown by the above test, wherein about 80 per cent. of the strength of the thread had been taken away.

For the purpose of illustrating these erroneous ideas, we took an 8-inch coupling and a piece of 8-inch pipe, and throughout the whole length of the bearing of the thread in the coupling and on the pipe we made grooves such as are likely to occur when there is a defective weld. The grooves extended about half the depth of the thread, and were made one inch apart for the entire circumference of the pipe. Then we flattened all the threads, both on the pipe and in the coupling, excepting a mere speck in each. Also, to offset the broken thread feature of this question, we cut three grooves in the pipe, $\frac{1}{4}$ inch wide and the full depth of the thread.

This coupling and piece of pipe were then screwed together and tested to 500 lb. of air, at which pressure the joint was tight, demonstrating conclusively the stupidity of steamfitters on this subject, as claimed in the beginning of this article. The amount of defect in the threads used in this test was at least 100 per cent. greater than that for which the regular steamfitter or engineer will reject material.

TORONTO BUILDING PERMITS.

Building permits have been issued to Richard Gilpin for the erection of a two-storey and attic brick house at No. 105 Ann street, to cost \$4,500; to Thomas Foster for additions to cottages on the north-west corner of Queen and Berkeley streets, to cost \$1,000; to A. Grossi for additions to houses, 6, 8, 10 and 12 Shirely avenue, to

cost \$1,300; to H. W. Corney for additions to No. 30 Caer Howell street, to cost \$400; to Geo. Ross for the erection of a two-storey brick dwelling house on the east side of Cowan avenue, near Huxley street, to cost \$1,400; to St. Hilda's College for a three-storey brick and stone training university building on Queen street, near Crawford, to cost \$12,000; to H. M. Campbell for a two-storey attic brick residence on Scarth road, near the South Drive, Rosedale, to cost \$4,000; to Mrs. M. Jones for alterations to store at 75 Jarvis street, to cost \$700; to E. G. Eaton for a one-storey and attic stable, near St. George street, on the north side of Lowther avenue, to cost \$1,200.

PLUMBING AND HEATING NOTES.

B. Howell, plumber, Trail, B.C., has retired from business.

Wm. Cote, plumber, Sorel, Que., has been burned out; partially insured.

Lefebvre & Taschereau have been appointed curators of Paul V. Parent, plumber, Quebec.

John Boyd & Co., wholesale plumbers' supplies, Vancouver, B.C., have admitted A. A. Burns, under the style of Boyd, Burns & Co.

The banquet committee of the Toronto Plumbers' Association decided this week to change the date of their banquet from Friday evening, the 31st inst., to the evening of Friday, April 7.

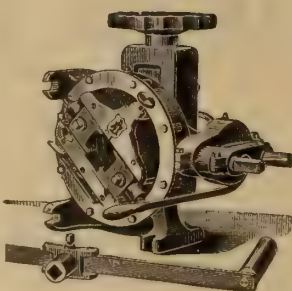
George C. Robb, Government inspector of boilers, in a report to the property committee on the steam boilers at Toronto Jail, reiterates his former statement that the boilers are too small, and, on this account, waste fuel. He recommends that a large boiler, capable of heating the whole building, be put in, and the present ones used only in cases of emergency. This would, he says, be an economical course.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



New No. 0 Threading Machine.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PART

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.



"Engineers' Favorite" Flue Scraper.

ENGINEERS' SUPPLIES

VALVES, STOP COCKS, STEAM GAUGES,
INSPIRATORS and INJECTORS.

The **Jas. Morrison Brass Mfg. Co.**
93 Adelaide W, Toronto. Limited

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

THE ..

DOMINION RADIATOR COMPANY

LIMITED

Dealers

in the most complete line of

Steamfitters' Specialties

HEAD OFFICE and WORKS:

340 to 376 Dufferin Street

TORONTO, ONT.



Safford Steam ^{and} Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
Cast and Malleable Fittings
Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

CORRUPT PRACTICES IN TRADE.

LORD RUSSELL, of Killowen, has submitted to the Associated Chambers of Commerce a bill to check corruption in trade. It is understood that the bill has been prepared by Sir Edward Fry, and that Lord Russell will introduce it into the House of Lords. The bill will make it a punishable offence to make, offer, receive, or solicit a corrupt payment; and if any person shall give to any factor, agent, clerk, or servant any receipt, account, or other document in respect of which the principal, master, or employer is interested which shall omit to state explicitly and fully any discount, rebate, gratuity, or reduction made, given, or allowed, or in which there shall be any omission of any fact in relation to the transaction to which the said receipt, account, or document relates, and which it shall be for the interest of the principal, master, or employer to know, shall be guilty of a misdemeanor, and in Scotland of an offence punishable by fine and imprisonment. The executive committee of the Association of Chambers of Commerce of the United Kingdom has considered the bill, and the resolution passed by the committee is in terms of cordial approval of its objects. It reads: "The Council have duly considered the draft bill, and, without committing themselves to all its details, desire to express their cordial approval of its general scope and object. They are glad to observe that Parliamentary attention will thus be effectively directed to the growing and reprehensible practice of giving illicit commissions—a practice which is greatly injurious to business, and is to be seriously deprecated in the interests of commercial morality."

SMOKESTACKS OF GALVANIZED AND BLACK IRON.

A correspondent of The Metal Worker writes that journal as follows: "Regarding the durability of smokestacks and the cause of their rusting out so quickly, I have found from experience that a smokestack made from black iron of good quality will outlast one of galvanized iron. The reason is that the acid in the smoke attacks the zinc coating first, and then with the first damp weather it begins to work on the iron, and in six months' time has done a good deal of damage unless the stack is kept hot continually. Now the acid affects the black iron in the same way, only there is no zinc for it to attack, and it is much slower in its work and the greatest damage done is when the stack is cold. A stack made from the No. 12 or No. 14 black iron, of good quality, and painted with asphaltum when put up, and repainted when it shows signs of scaling, will last for five or six years. Not long ago I repaired a stack 65 feet high

and 22½ inches in diameter by adding 24 feet at the top to replace the part that had given way. This stack was of No. 14 iron and had been in constant use for four years and painted only once, and then with coal tar. As a general rule, a large stack begins to wear away first at the top and generally breaks at or near a seam. This is due to the heat being less intense at that point, and therefore the chemicals have a better opportunity to act on the iron. All seams should be well painted to prevent rust, and when expense is no object the entire inside of the stack should be coated. Burning pine or resin now and then will counteract the acid and fumes to a certain extent."

THE BOOM IN STAG-HORN.

The sales of stag-horn in London, last week, came almost as a surprise upon the horn merchants and buyers belonging to Sheffield. They found representatives of American houses there in the salerooms, prepared to buy at any price, and representatives of French and German houses who were not much behind them. Some of the finest parcels realized as much as £205 per ton, and there being some very urgent orders in hand requiring horns in Sheffield, they were bought at a price that will involve the merchant in loss. At the two previous sales, prices were a little easier, and it was thought that it would be possible to continue the same quotations at this sale, but so far from that being the case, prices went up from 10 to 15 per cent., and there were men in the room who had bought precisely similar horns at £75 per ton. The fact appears to be that the American cutlery manufacturers are monopolizing the great trade that was formerly done by Sheffield in carvers and steels, and they are now making their own, to the exclusion of the Sheffield-made article. There was not the same keen competition for the commoner descriptions of horn, but, on the whole, these sold exceedingly well.—Hardwareman, Feb. 25.

HONEST ADVERTISING.

People used to say: "Oh, I never pay any attention to advertisements; they never tell the truth." Now, it's different; people do read advertisements, and they believe them. Advertisers are becoming more careful and more scrupulously truthful every day. I know a firm of advertising agents who also own a medicated soap. I said: "Is it really such a wonderful thing, and do you take the care you say you do in making it?" The answer was: "Of course it is a good thing. We have seen too much of advertising to be fools enough to spend money pushing a poor article." Most all advertisers understand this nowadays, and that is why it pays better than it used to.—Charles Austin Bates.

THE DANGER FROM LARGE CAPITALIZATIONS.

There are many people who view with something like alarm the astonishing growth of industrial and manufacturing companies. One point that is raised in connection with the matter is that while it is true that these companies are not necessarily new enterprises in that they mostly represent already established businesses they result eventually in the capitalization and sale through capitalization of a vast quantity of wornout and worthless plant and material. It is a question in the minds of some whether the savings in operation resulting from concentration of manufacture offset this disadvantage. Many people think that a public company is very slow to write off money for depreciation of plant, etc., to the extent that owners of a private business would be obliged to do. The result of failure to write off enough from year to year is that the time comes when a large loss has to be confessed, as in the case of the General Electric Co. There are those who think that the next panic will be provided mainly by industrial stocks although it is admitted that there is, of course, not the slightest reason why a great many moderately capitalized and well-managed concerns should not be able to do well. The temptation to over capitalization is very great, more especially when speculation is vigorous in this class of security.—Wall Street Journal.

TWO PLACES NAMED JINKSVILLE.

Merchant—I wish to transport some goods to Jinksville, and—

Railroad official (irascibly)—Well, why in thunder don't you go to the freight department?

Merchant—It's a large quantity of goods, and I wish to inquire about rates.

Official—Go to the freight department, I say. Whatever the rates are you'll pay 'em, or keep your goods at home. No reduction to you or anybody else. Hear that? Clear out now.

Merchant—The Jinksville I mean is not in this State, but the Jinksville over the line. There is a rival road running there, you know, and I can easily—

Official—Sit down, my dear sir, sit down and let's talk it over. James, bring the gentleman a cigar. Henry, bring the gentleman a glass of champagne. George, tell the president one of our most valued patrons is here.—N. Y. Weekly.

The contract for the supply of machinery for the new cold storage building, on Bathurst street, has been awarded to the British Lind Co., of Montreal, their price being \$17,000.—News, London, Ont.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Galvanized Sheets, Imitation Russia Sheets, Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
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**Van Tuyl & Fairbank**

Petrolia, Ont.

Headquarters for...

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

ARE YOU A BUYER of

Hardware, Metals,
Paints, Oils, etc. ?

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ing authority on these trades, will be sent to
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1879

ESTABLISHED

1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
Hammer, and all kinds of Handles. Neck Yokes,
Singletrees, and Doubletrees, Bench Saws, Exercise
Clubs, Baseball Bats, etc., etc. Do you sell any
Shaved Pattern and Octagon Axe Handles? The
largest and best trade in Canada does, because they
give best satisfaction. All stock air-dried, not kiln-
dried. If you are going to be in it, place your
order with

GARDNER BROS. & CO.**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS

Made also in Malleable Iron.

These are a distinct advance over the old plain straps,
being much stronger and neater.

Write for Catalogue and Prices.

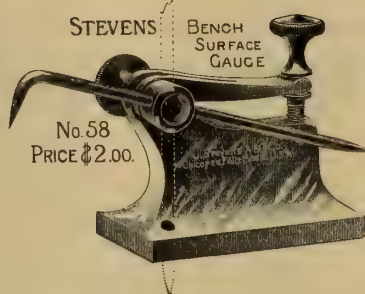
BERGER BROS. CO.

Tinnners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street

STEVENS ...FINE TOOLSWe make a perfect line
of**CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool
Makers' Clamps, Center Punches, etc.



No. 58
PRICE \$2.00.

Write for our New Catalogue containing a description of our Tools.
It is also a valuable hand-book of information for mechanics and people
interested in such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass, U.S.A.

Carried by our representatives at Toronto and Montreal.

**No
Chances
Here.**

"Give me something for the walls of
my rooms—I'm tired of papering them all
the time." And then perhaps you sell that
customer a **Kalsomine** or a substitute for
that sanitary and absolutely durable Water-

Color Wall Coating, "Church's Alabastine," (16 beautiful tints and white).
Before you know it someone sues you for infringement of **their** patent.

You take no such chances with Alabastine—it is absolutely protected
by letters patent—no one will sue you if you sell—

Used with **COLD** water. Easy to ap-
ply. Skill not necessary. Never decays
or scales. Won't rub off. Ready for
use.

**Church's
Alabastine**

THE ALABASTINE CO'Y, Limited, PARIS, ONT.

HUTCHISON, SHURLY & DERRETT

DOVERCOURT
TWINE MILLS.

1078 BLOOR STREET WEST,
TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.

JOHN BOWMAN HARDWARE AND COAL CO.

London, Ont.

S. & D. CELEBRATED

BINDER TWINE.

Unequalled for Quality.

Prices Right.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, American list. B. B. Caps, discount 45 per cent.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
 Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.
 Wads.

Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each 8 gauge, 0 25
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Adzes.
 Discount, 33½ per cent.

Anvils.
 Per lb. 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb. 09 0 09½
 Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.
 Gilmour's, discount 65 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
 E. Collier, Jennings', discount 50 per cent.
 Mullar's Falls, per doz., 2 8 3 30

AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, " 11 00 18 00
 Bench Axes, 40 and 15 p.c.
 Broad Axes, 33½ per cent.

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list.
 Boxed extra

Anti-Friction Metal.
 "Tandem" A, per lb. 0 19
 "B, " 0 16
 "C, " 0 10½
 "Monarch" 1, " 0 21
 " 2, " 0 15
 " 3, " 0 10
 "Canadian" " 0 08½
 Magnolia Anti-Friction Metal, per lb. 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.

Door.
 Gongs Sargent's, 5 50 8 00
 " Peterboro', discount 50 per cent.

Cow.
 American make, discount 66½ per cent.

Canadian, discount 45 and 50 per cent.

Farm.
 American, each, 1 25 3 00

House.
 American, per lb. 0 35 0 40

Bellows.
 Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Beltting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.
 Auger.
 Gilmour's, discount 65 per cent.
 Excelsior, discount 60 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 " Perfection, 50 and 10 per cent.
 Jennings' Gen., net list to 5 p.c. discount.

Car.
 Gilmour's, 47½ to 50 per cent.
 Expansive
 Clark's 40 per cent.
 Excelsior, 10 per cent.

Gimlet.
 0 65 0 90
 Diamond Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Annex, per doz., 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 00

Blind and Bed Staples.
 All sizes, per lb. 7½ 0 12

Bolts.
 Carriage, 5-16 and under, dis., 60 and 5 p.c.
 " and larger, dis., 62½ per cent.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Sleighshoe, 80 per cent.
 Machine, all sizes, 60 and 15 per cent.
 Blank, 61 and 15 per cent.
 Coach Screws, dis. 75 and 10 p.c.
 Plough bolts, 60 p.c.
 Bolt ends 60 and 15 per cent.
 Nuts, square, 1½ c.
 " hexagon, 5c.
 Tapping nuts, 70 per cent.

Boot Calks.
 Small and medium, per M., 4 50
 Small heel, per M., 4 25

Broilers.
 Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City " 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Rail Rings.
 Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.
 Brass.
 Wrought Brass, dis., 10 p.c. revised list.
 Cast Iron
 Toose Pin, dis. 70 per cent.

Wrought Steel.
 Fast Joint, dis. 70, 10 and 5 to 75 p.c.
 Loose Pins, dis. 70, 10 and 5 to 75 p.c.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Cards.
 Horse per doz., 0 60 1 00

Carpet Sweepers.
 Bissell, per doz., 22 50

World, " 21 75

Daisy, " 24 00

Star, " 15 00

Crown Jewel, per doz., 29 00

Grand Rapids, " 24 0 33 00

Carpet Stretchers.
 American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross, 8 50 9 50

Cement.
 Canadian Portland, 2 65 2 90
 English, " 2 80 3 00
 Belgium, " 2 50
 Canadian hydraulic, 1 00 1 10
 Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt., 0 60 0 65
 Red, " 0 05 0 05
 Crayon, per gross, 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 40 and 10 per cent.

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock, Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain, 3 25
 " embossed, 3 50
 Connections, 1 10

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.

Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
 Torrey's Rod, per doz., (15 p.c.) 2 00
 Coil, per doz., 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.
 Broad's, dis. 75 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz. net list.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.

Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz., 85 1 70

FILES.
 Globe File Mfg. Co.'s dis., files, 50 and 10 70 per cent.

Black Diamond, 50 and 10 to 60 per cent.

Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.

Jowitt's, English list, 25 to 27½ per cent.

Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS
 Ice Cream.

White Mountain, 1 to 25 qt., 1 35 13 50

Arctic, dis. 50 p.c.

FRY PANS.
 Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.
 Window.
 Box Price.

Star. Double Diamond

Per 50 ft. Per 100 ft. Per 100 ft.

Size United Inches.

Under 25, 1 80 3 50 5 50

26 to 40, 1 95 3 80 6 00

41 to 50, 4 20 6 75

51 to 60, 4 50 8 00

61 to 70, 4 80 8 75

71 to 80, 5 20 9 75

81 to 85, 5 80 10 75

86 to 90, 6 80 13 00

91 to 95, 14 75

96 to 100, 16 75

101 to 105, 18 75

106 to 110, 22 75

HALTERS.
 Rope, ¾ per gross, 8 25 8 50

" ½, " 9 25 9 50

" ¼, " 11 00 11 25

Leather, 1 in., per doz., 3 87½ 4 00

" 1½ in., " 5 15 5 25

Web, — per doz., 1 87 2 40

HAMMERS.
 Nail

Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27½ per cent.

Tack.
 Magnetic per doz., 1 10 20

Sledge.
 Canadian, per lb., 0 07½ 8½

Ball Pean.
 English and Can., per lb., 0 22 25

HANDLES.
 Axe, per doz., net, 1 50 2 00

Store door, per doz., 1 00 1 50

Chest, per doz. pairs, 0 40 2 50

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz., 1 00 25

Plane.
 American per gross, 3 1

Hammer and Hatchet.
 Canadian, 45 per cent.

Cross-Cut Saw.
 Canadian, per pair, 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair, 0 40 50

Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.

" Shepard's Noiseless, dis. 60 per cent.

" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb., 0 05

" 5-in., " 0 04½

" 6-in., " 0 04½

" 8-in., " 0 04½

" 10-in., " 0 04

crew hook and hinge
 6 to 12 in., per 100 lbs., 3 75

14 in. up, per 100 lbs., 3 00

Per gro. pair 8 50

HOES.
 Garden, Mortar, etc., dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.

Cast Iron.

Bird Cage, per doz	0 50	1 10
Clothes Line, per doz	0 27	0 63
Harness, per doz	0 72	0 88
Hat and Coat, per gross	1 00	3 00
Chandelier, per doz	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.
47½ per cent.

Wire.

Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.	F.O.B.	Toronto.
Light, medium, and heavy	3 25	
Snow shoes	3 50	
Steel Shoes.		
Light, all sizes	3 45	
Extra light	4 60	
Toe weight (steel)	5 60	
If shipped from factory, Montreal, 10c. per keg less.		

ICE PICKS.

Star, per doz	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross	1 60	

KNOBS.

Door, japanned and N.P., per		
doz.	0 90	
Bronze, Berlin, per doz	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass, "	1 20	1 30

LINES.

Fish, per gross	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz.	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		
Padlock.		
English and Am., per doz.	50	6 30
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:	Cut.	Wire.
2d and 3d	\$2 85	\$3 55
3d	2 50	3 20
4 and 5d	2 25	2 95
6 and 7d	2 15	2 85
8 and 9d	2 00	2 70
10 and 12d	1 95	2 65
16 and 20d	1 90	2 60
30, 40, 60 and 60d. (base)	1 85	2 55

Steel Cut Nails 10c. extra
Brads and finishing nails, special sizes,
80 p.c. from new list.

NAIL PULLERS.

German and American	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.

OIL.

Canada refined oil (Toronto)	0 14	
Carbon safety	0 16½	
American w. w.	0 17	
Pratt's Astral	0 17½	

OILERS.

McClary's Model galvan. oil		
can., with pump, 5 gal.	0 00	9 00
per doz.		
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz	1 25	3 50
Brass, "	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz	1 85	3 00
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PICKS.

Per doz	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis,		
Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½		
to 4	100 00	
No. 56 Hand Machine, range 2½		
to 6	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz	0 60	2 60

PLUMBS AND LEVELS.

S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning	0 35	2 50

PUMPS

Canadian cistern	1 40	2 25
Canadian pitcher spout	1 15	2 00

PUNCHES.

Saddlers', per doz	1 00	1 85
Conductors, "	9 00	15 00
Tinners' solid, per set	0 00	0 72
" hollow, per inch	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 65 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and		
p.c.		
Copper Rivets & Burrs, 37½ p.c. dis.		
" in ½-lb. boxes and		
cartoons, 1c. per lb. extra, net.		
Burrs, iron or steel, 55 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	9 ¼	Manilla
¾ in.	8 ¼	10 ½
½ and 5-16 in.	10 ¼	11
Cotton	13	
Russia Deep Sea	14 ¼	
Jute	6 ¾	7 ½
Lath Yarn	8 ¾	
New Zealand Rope		

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set	0 55	
N.P., per set	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each	0 75	2 75
" frame only	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent		
Fairbanks Standard, 45 p.c.		
Dominion, 60 p.c.		
Richelle, 60 p.c.		
Chatillon Spring Scales, 25 p.c.		

SCREENS.

Door, patent, per doz	6 00	12 00
Window, per doz	2 00	3 00

SCREW DRIVERS

Sargent's, per doz	85	1 00
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SCREWS

Wood, F. H., iron, and steel, dis. 85 p.c.		
Wood R. H., dis. 77½ p.c.		
F. H., brass, dis. 77½ p.c.		
Wood, R. H., dis. 70 p.c.		
Drive Screws, 87½ per cent.		
Bench, wood, per doz	3 25	4 00
" iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 60 p.c.		
Heinisch, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
------------------------------	--	--

SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	3 00	
Bright	2 75	

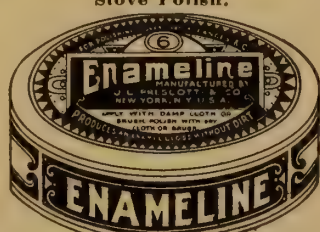
STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindostan,	0 06	0 07
slips, per lb.	0 09	0 39
Labrador,	0 13	
Axe,	0 15	
Turkey		
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross	3 50	5 00
Grind. per ton	15 00	18 00

Stove Polish.



STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long per foot, 16c
2nd grade, 3 to 10-ft., per foot, 10c.

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk	75 and 10
Cheese-box tacks, bulk d	85 and 30
Trunk tacks, black and tinned	85 and 25
Carp tacks, blue d and tinned	80 and 30
" " (in kegs)	50
Cut tacks, blued, in dozens only	80 and 5
" " $\frac{3}{4}$ wei, hts	60 and 10
Swedes, cut tacks, blued and tinned—	
In bulk	80 and 30
In dozens	80
Swedes, upholsterers', bu k	85 and 30
" " brush, blued and tinned, bulk	50
" " gim, blued, tinned & janned	75
Zinc tack	35
Leather chest tacks	65
Copper tacks	65
Copper nails	52½
Trunk nails, black and tinned	75
Clout nails, l, ued and tinned	75
Chain n ils	45
Cigar box nails	45
Patent l rads	50
Fine finishing	45
Pi ture fr me points	25
Lining tacks in papers	10
" " in bulk	15
" " solid heads, in bulk	80 and 10
Saddle nails in papers	10
" " in bulk	15
Tufting buttons, 22 line, in dozens only	60
Tin capped trunk nails	15
Zink glazier's points	10
Double pointed tacks	15

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.



**Force
Lift
Cistern
Pumps**

Iron or Brass.
One quality only,
The Best.

PRICES RIGHT.

THE R. McDOUGALL CO., Limited
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Reads every newspaper in Canada and clips therefrom all articles of a business or personal nature of interest to subscribers in this department.

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Executive Offices Proprietors.

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Offices in the principal cities of the United States, Canada, the European Continent, Australia, and in London, England.

The Bradstreet Company is the oldest and, financially, the strongest organization of its kind—working in one interest and under one management—with wider ramifications, with more capital invested in the business, and it expends more money every year for the collection and dissemination of information than any similar institution in the world.

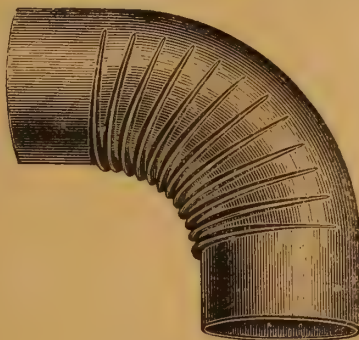
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**SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.**



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

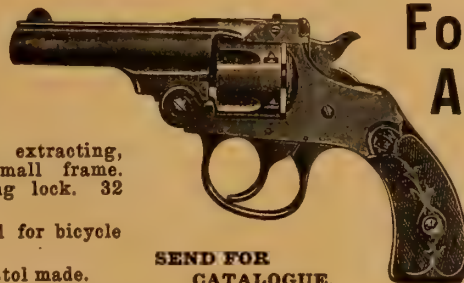
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PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



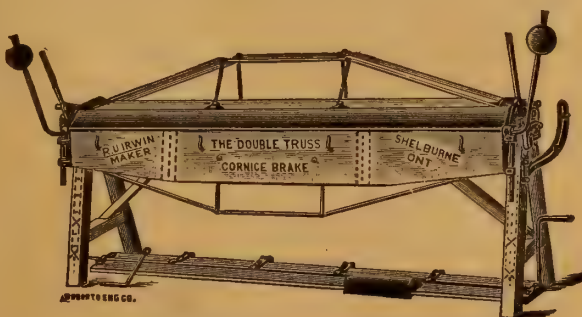
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CATALOGUE.**

Forehand Arms Co.

Manufacturers of
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Forehand Guns

**Worcester,
Mass.**



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co.**

SHELBURNE, ONT.

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals



Awarded
By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895



HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

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THE GUTTA PERCHA AND RUBBER MFG. CO.
OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

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Ready-Mixed Paints
Dry Colors
Enamels
Dripping Paints
Carriage Colors
Floor Paints
Oil Wood Stains
Graining Colors
Monarch Varnish

Have stood the test for years, and are guaranteed for purity where others fail.

They afford the dealer a fair profit, and please his customers every time.

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The JAMES ROBERTSON CO., Limited 263-285 King Street West, Toronto

Telephones 819, 1511 and 1292.

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Hardware and Metal *Canada*



Publishers:
The MacLean Publishing Co. Limited.
Montreal and Toronto

March 25, 1899

Manufacturers of _____

Paints

DRY COLORS
and VARNISHES



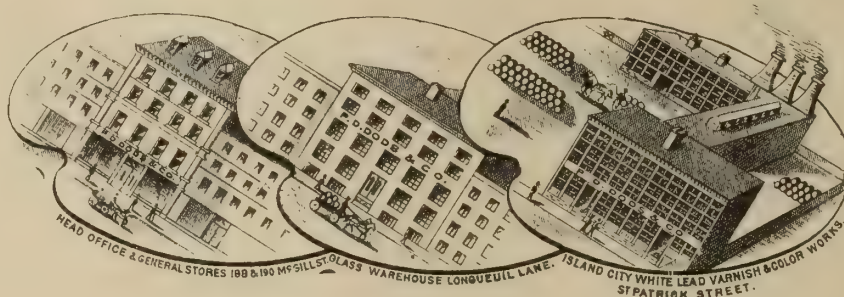
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Dries in eight hours.

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Made from the purest materials. Send for sample card showing 42 colors.

Island City Bicycle Enamel, Household Enamel,
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Island City Oil/Wood Stains, Kalsomine and Fresco Tints,
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WINDOW GLASS

Rough Rolled, Enamel and all descriptions of Fancy Glass.

P. D. DODS & CO.

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Scientific Bearing Metal
Langwell's Babbitt
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CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MARCH 25, 1899.

NO. 12



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Traders' Building.
MONTREAL—Caverhill, Learmont & Co.
General Dominion Agents.

Owners and Sole Manufacturers,
266 and 267 West St., New York

"Fleur de Lis" Canada

New brand of Galvanized Iron, manufactured by makers
of "Queen's Head," and guaranteed equal to any other brand
made excepting "Queen's Head."

Working qualities and weight guaranteed same as "Queen's
Head."

JOHN LYSAGHT, Limited

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LARGEST RADIATOR MANUFACTURERS UNDER THE BRITISH FLAG.

SAFFORD Patent RADIATORS

For Heating by
HOT WATER and STEAM.

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company
TORONTO Limited



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A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
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Boiler Plate
Shelf and Heavy
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MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIPPERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

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Toronto, **RICE LEWIS & SON**

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

LADIES' and
GENTLEMEN'S

1899 MODEL

Drop Frame, Flush Joints, Dust-Proof
Bearings, etc., etc.

High-Grade Bicycles

Fully Warranted

LIST PRICE, \$30.00

Liberal discount allowed the trade.
Only **ONE** customer in each town.
Write for full particulars and discount.

Kerrigan Purchasing Association
LONDON, ONTARIO.



Imperial Standard Scales.

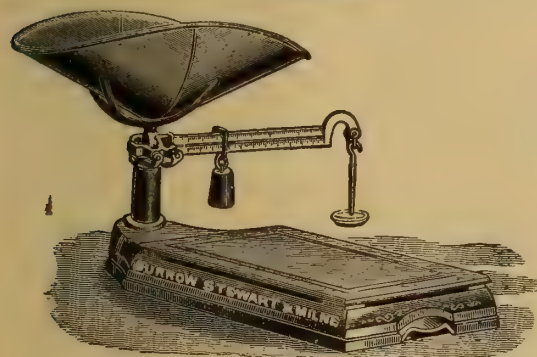
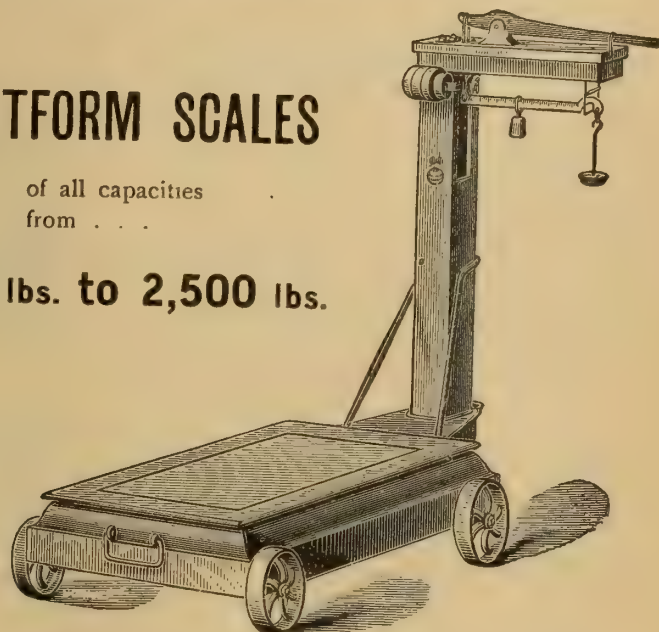
Accurate !
Reliable !
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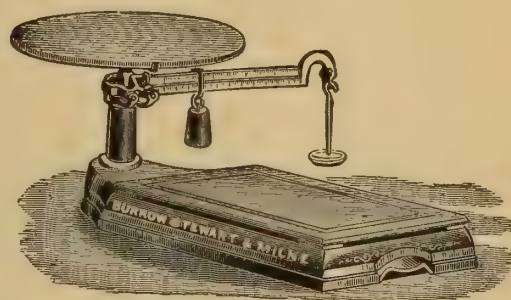
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from . . .

300 lbs. to 2,500 lbs.

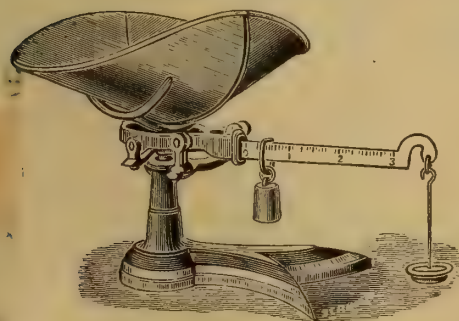


UNION SCALE WITH SCOOP.
Capacity, 240 lbs.

We make Scales
for
every purpose,
of all capacities,
from a
Letter Scale
to a
Great Railway
Track Scale
Weighing 100 tons.



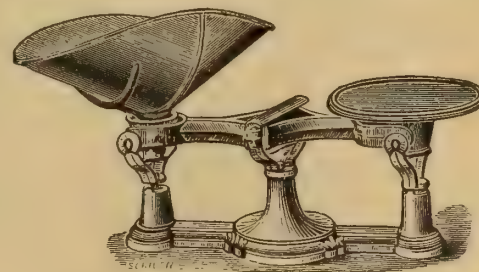
UNION MEAT SCALE.
Capacity 240 lbs.



GROCERS' SCALE WITH SCOOP.
Capacity, 40 or 60 lbs.

Our name on any
Scale is
a sufficient
guarantee of

High Quality.



GROCERS' TRIP SCALE.
Capacity, 6, 10 or 17 lbs.

THE BURROW, STEWART AND MILNE CO.
HAMILTON, ONTARIO

LIMITED

THE B. GREENING WIRE CO.

LIMITED

**OUR
SEASONABLE
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Green Painted Screen Cloth.

Widths in stock: 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 48 inches. Painted black to order.

Wire Cloth.

For Fanning Mills, Threshing Machines, Sand Screens, Window Guards, etc. Hardware Grade, Special Lath, Galvanized and Re-Galvanized Webs, etc. All standard meshes and widths in stock. Others made to order.

Perforated Metals.

Of Steel, Zinc and Copper. For all purposes.

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Poultry Netting.

All widths in stock—from 12 to 96 inch. Heavy nettings for special purposes carried in stock, suitable for Fencing purposes, Baseball and Tennis Grounds, etc.

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Greatly reduced prices for 1899.

Wire Rope.

All kinds and for all purposes.

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All sizes. Put up in 50 and 100-ft. coils.

Sand and Gravel Screens.

Suitable for all kinds of work.

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Widths, 24, 30 and 36-inch.

Foundry Supplies.

Riddles, Brushes and Bellows.

Sofa Springs.

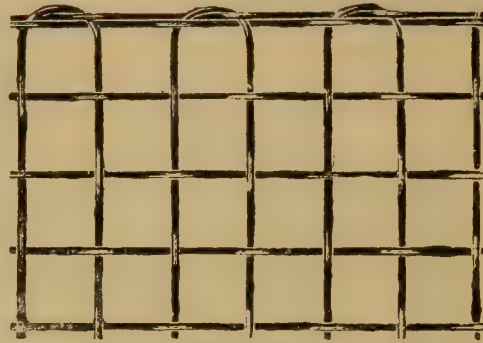
All sizes. Special Springs made to order.

Wire Guards.

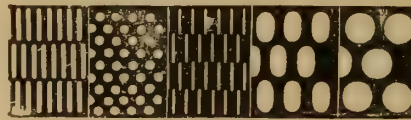
For store fronts, factory and basement windows.

Wire Door Mats.

With or without lettering.



Wire Cloth.



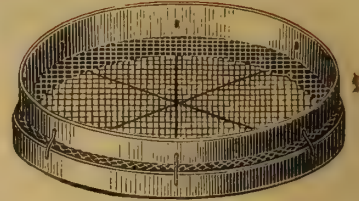
Perforated Metals.



Chains—Brown's Patent.



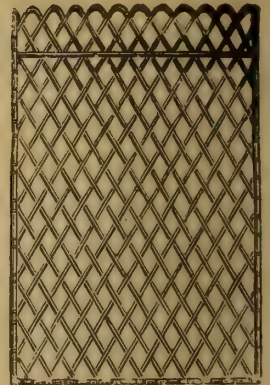
Poultry Netting.



Foundry Supplies.



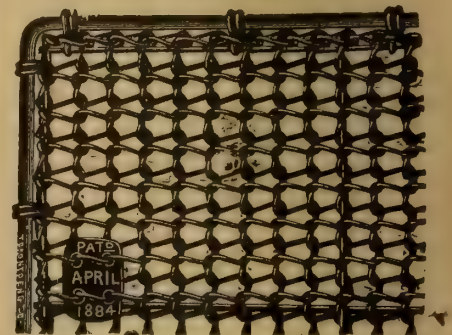
Sofa Springs.



Wire Guards.



Wire Rope.

THE BEST & CHEAPEST
Sand and Gravel Screens.

Wire Door Mats

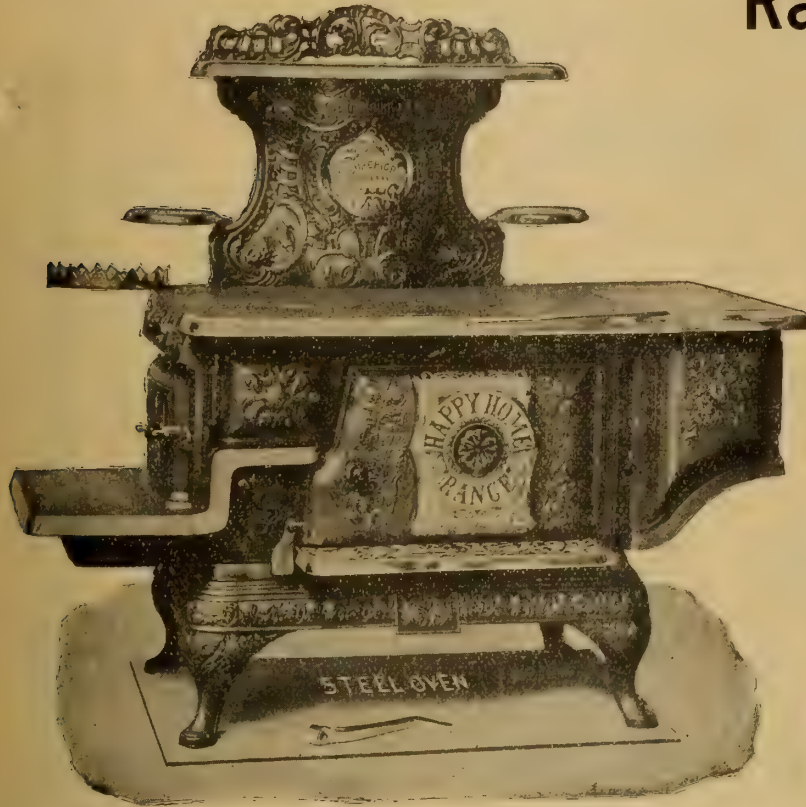
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We are Selling Agents for McMullin's Celebrated Nettings and Fencings. Every size in stock.

The B. Greening Wire Co., Limited

**HAMILTON
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"Moore's" SUPERIOR Stoves, Ranges, Furnaces, etc.



Happy Home Range

**For Coal and Wood
and Wood Only**

The very large and increased sale of Happy Home Ranges during the past year is more than proof of their superior merit.

They possess many features of utility and convenience not to be found in other ranges.

They—

**Operate Perfectly.
Yield a good profit to dealers.
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ALL OUR LINES ARE LEADERS

Are up-to-date, quick-selling goods

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9/20 Pansy

**WOOD
COOKS**

With Cold-Rolled Sheet
Steel Ovens.

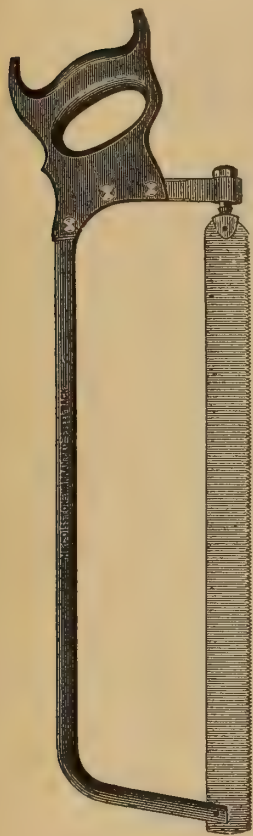
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HANDSOME IN DESIGN,
QUICK SELLERS . . .



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SAWS FILES AND TOOLS



of Superior Quality and Unsurpassed
Workmanship.

LEWIS BROS. & CO.

30 St. Sulpice Street

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Quality Better than Ever.



SMOKELESS RIFLE

and REVOLVER POWDERS

- Rifleite ·303** For all Sporting and Military Magazine Rifles, ·23 to ·31 calibre; and for Machine Guns of same bore.
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SOLE MANUFACTURERS:

THE SMOKELESS POWDER COMPANY

Limited

28 Gresham Street - LONDON, E.C.

Works: BARWICK, HERTS.

LEWIS BROS. & CO., Agents for Canada,
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"THE FINEST RANGE THAT HAS BEEN"

— ♦ — **Our .New** — ♦ —

Imperial Oxford Range

Represents the very highest development
of mechanical perfection in range
construction.

**Its patent Front Draw-Out Grate, Draw-Out Oven
Rack, and Diffusive Flue Construction give it pre-
cedence over any other range on the market.**



It is made in a full line of sizes and styles

Handsomely finished, with Oven
Thermometer, Stationary Towel Rack, Tea Shelves and
other convenient details.

ARE YOU HANDLING THEM?

If not, better write for full information.

"THEY'RE THE SUCCESS OF THE SEASON."

IN POPULAR DEMAND EVERYWHERE.

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Nova Scotia Paint and
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Manufacturers
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Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty,
Marbleine Wall Tints, etc., etc.

Sole Agents for the
Dominion for

BRANDRAM'S

Celebrated

ENGLISH White Lead.



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and 747 Craig St.,
MONTREAL.

The

Watson, Foster Co.

LIMITED

Manufacturers of every grade of
Wall Papers.

☞☞☞ MONTREAL



The most modern Wall Paper Factory on the continent.

Output 60% of all the Wall Paper used in Canada.

116 complete new combinations to select from—the largest line in America.

Have you seen our samples?

If not, why not? They are worth seeing.

A post card will bring you a full set to select from.

The coming season is going to be a good one for Wall Paper dealers.

Your stock should be complete.

Write for samples while our popular lines are in stock. They are going fast.

The Canada Screw Co.

 HAMILTON, ONTARIO.



Wood Screws of all kinds, in Iron,
Brass and Bronze.

Stove Bolts and Stove Rods.

Tire Bolts and Sleigh Shoe Bolts.

Machine Screws.

Iron and Copper Rivets and Burrs.

Wire and Wire Nails.

Gate Hooks, Screw Eyes and
Special Bright Goods.

Threaded Wires.

Wire Nails Tacks Wire

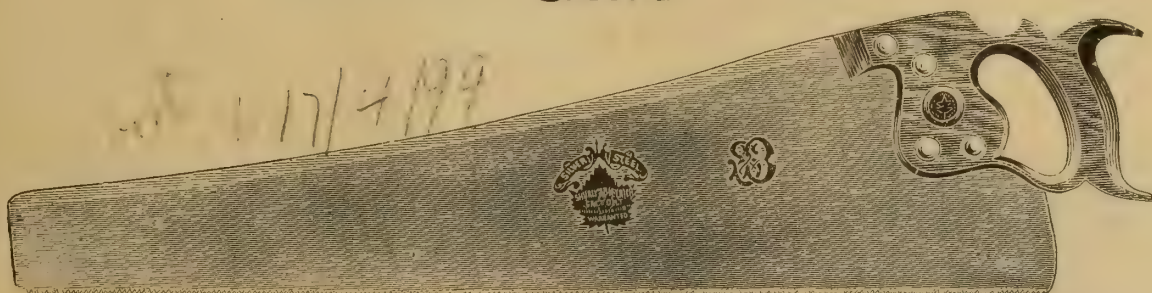


PROMPT SHIPMENTS

The
Ontario Tack
Co. Limited
Hamilton, Ont.

SHURLY & DIETRICH

Manufacturers of **SAWS** of all kinds.



ADAM DUNN'S PATENTED LAWN RAKE.



This rake is the best general purpose rake made. It has no equal for cleaning the lawn of dandelions and weeds. Manufactured only by

SHURLY & DIETRICH,

Galt, Ont.

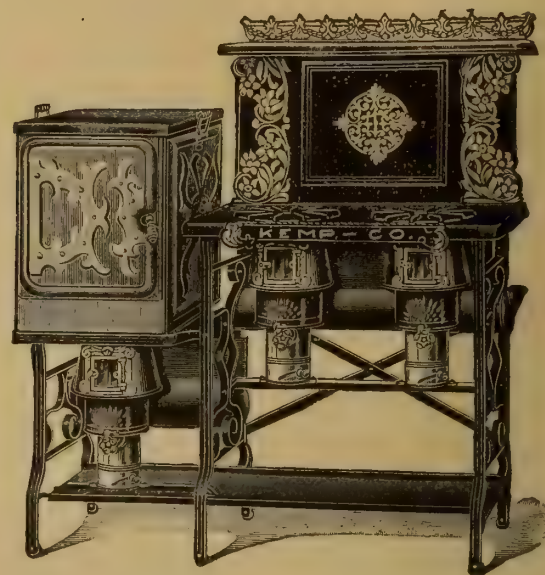
Kemp's Blue Flame Oil Stoves

RECOGNIZED LEADERS FOR 1899

Handsome in Appearance.
Simple in Construction.

Our Blue Flame Wick Stoves

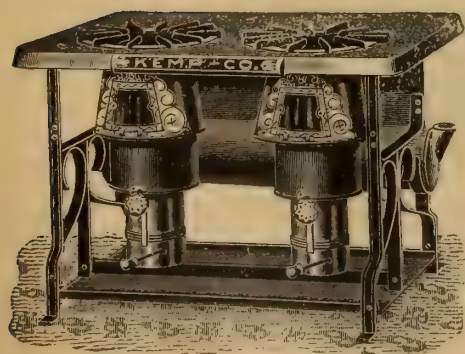
are Easy to operate.
Economical in Fuel.
Give a powerful heat and are
Easy to trim and re-wick.
It is the only Stove made with Solid Drawn
Inside and Outside Burner Tubes.
Have no Side Seams to leak, or
NO Perforations to be easily filled up with dirt.
They are supplied with Broad Tops.



Our Wickless Blue Flame Stoves

Will be a New Feature in
This Year's Trade.

They are Handsome, Convenient,
and Absolutely Safe.



The Oil is fed to a **Powerful Burner** through
Solid Drawn Brass Tubes, and **Lights**
Instantaneously.

Each Stove supplied with **Swinging Shelf**,
Sight Feed, **Removable Oil Tanks.**

They are **Economical in Fuel** and can be easily
taken apart.

Kemp Manufacturing Co., Toronto, Can.



CANADA'S CANALS AND THE TRANSPORTATION PROBLEM.

CANALS IN EXISTENCE
AND CANALS PROJECTED.

By W. L. E.

ONE of the chief unsolved problems in Canada to-day is that of transportation. No problem at the moment transcends it. Blessed by Nature with great resources, the utility of these resources can only be measured as they are developed and their product marketed. In fact, they can only be developed as the market for them expands.

Fifteen hundred to two thousand miles inland are areas of land capable of producing wheat enough to satisfy the wants of the people of Great Britain. But, while we have the wheat lands, and did in Manitoba and the Territories last year raise 30,000,000 bushels of wheat, to say nothing of other cereals, the export trade is handicapped by the freight rates entailed in shipping to the seaboard. This, of course, militates against the development of the wheat growing areas of the Dominion, and indirectly against the development of the country itself.

Cheaper railway rates are being demanded, but the agitation in this respect is only incidental to the agitation for an extension of the canal system of the country. It is the general opinion in Canada that for the present, at any rate, there should be no

material expansion of the railway system, but this opinion by no means obtains in regard to canal construction.

For a country with a population of 5,000,000, Canada has done remarkably well in the work of canal construction.

HISTORY OF CANAL BUILDING IN CANADA.

Canal building in Canada had its initiation 120 years ago, and the first canals were those constructed to overcome the Cedar, Cascades and Coteau rapids, in the St. Lawrence. They were finished in 1781, and now, 118 years later, we have near completion a canal to be named the Soulanges, 14 miles, to overcome the same obstacles to navigation, and to replace the Beauharnois canal of 11¼ miles in length.

What is known as the St. Lawrence system of canals, which include the Welland and Sault Ste. Marie canals, aggregate 71 miles, with a total of 54 locks. The Ottawa and Rideau rivers canal system is 29¼ miles long, with 59 locks. On the Richelieu river are the Chambly canal, 12 miles, and St. Our's lock, ¾ mile. The Murray canal is 5½ miles long. The Trent canal, originally commenced by the Imperial Government, is really a term applied to a

series of water stretches, which do not form a connected system of navigation, and which, in their present condition, are efficient only for local use. Its construction has been carried on by "drips and drabs," and, up to date, comparatively few miles of actual canal work has been done. It is estimated that, when the contemplated work is completed, that there will be from 15 to 20 miles of canal. The total distance of navigable water on this system, when finished, however, will be 200 miles. With the Culbute lock and dam, and the St. Peter's canal, Cape Breton, the works briefly mentioned constitute the canal system of Canada, the total length of which, in operation, is about 125 miles.

COSTS, REVENUE AND TRAFFIC.

Up to the end of June, 1897, the canal system of the country had entailed an expenditure of nearly \$84,000,000, of which over \$69,000,000 were chargeable to capital. Of the total amount expended, over \$4,000,000 were contributed by the Imperial Government.

The revenue received from the canals since Confederation up to June 30, 1897, was \$11,302,577, or about 13 per cent. of the total expenditure. Last year, the revenue was \$384,781.

According to the returns of 1896, which are the latest issued, the tonnage of traffic passing through the Canadian canals was about 8,000,000, and the number of trips of vessels passing through 31,058. The total weight carried by the railways of Canada during 1897 was, it may be interest-

ing, by way of comparison, to note, 25,300,000 tons.

MISSING LINKS.

One need only glance at the map to show that notwithstanding all that has been expended upon the canal system of the Dominion, there are still wanting links to perfect not merely the Canadian system of canals, but positively to provide adequate outlets for the enormous quantity of cereals that must, in a few years, be produced in the Canadian Northwest for export.

A WATERWAY TO THE ORIENT.

Nearly two and a quarter centuries ago de la Salle propounded a scheme for the opening up of a highway to China and Japan by way of the St. Lawrence and the great lakes of Canada. And it was not, perhaps, as idle a dream as some may

Hudson Bay assured for any definite period, we should, doubtless, soon see either a railway or a canal leading to its shores.

FROM LAKE HURON TO MONTREAL, VIA THE OTTAWA RIVER.

But the most important scheme which is at present being seriously considered is that of connecting Lake Huron with the St. Lawrence, via French river, Lake Nipissing and the Ottawa river. The distance from the mouth of the French river to the mouth of the Ottawa at Montreal is 430 miles, and, of this distance, over 350 miles are natural navigation, while the length of canalling, inclusive of the $8\frac{1}{4}$ miles on the Lachine canal, would be less than 30 miles, against 71 miles on the St. Lawrence canal and 351 miles on the Erie canal.

The cost of a waterway from Lake Huron

too, than the same distance would on a railroad, for, until tidewater is reached, progress towards Liverpool, or any other cross-Atlantic port is necessarily not at express rate. This route has the endorsement of a good many men of engineering and transportation reputation, such as Walter Shanley, C.E.; H. K. Wicksteed, C.E.; Marcus Smith, C.E.; O. Higman, chief Dominion electrician; Andrew Bell, C.E.; T. C. Clarke, C.E.; Sir W. Van Horne. It is also worthy of note that the Imperial authorities, according to a statement of Major-General Gascoigne, look upon the proposed canal favorably, particularly if the channel be a 14-foot one.

NO PHYSICAL OBSTACLE.

The engineering authorities declare that no physical difficulties are in the way of the



Ocean Routes which Canadian Canals and Railways Feed.

imagine, seeing that water is to be had from the mouth of the St. Lawrence to the foot of the Rockies. But what people are most interested in now is the improvement of the canal facilities for, and the lessening of the cost of, getting the products of Manitoba and the Northwest to the Atlantic seaboard.

PROPOSED HUDSON BAY ROUTE.

Hudson Bay, dipping 1,000 miles or more into the very heart of the Dominion, would make the solution of the problem easy, were it not for the conditions which prevented its utilization for the desired purpose. Canals to the Bay, by way of Lake Winnipeg, have been projected, and so has a railway from Winnipeg to York Factory, at the mouth of the Hayes river. The railway, The Winnipeg Great Northern, already runs to a point on Shoal Lake, Manitoba, a couple of hours' journey from Winnipeg. Were the navigability of the

to Montreal, with a minimum depth of 10 feet, is estimated, by engineering authorities, at \$20,000,000, and at \$25,000,000 with a minimum depth of 14 feet. Mr. Booth, the owner of the Parry Sound railway, declared the other day, however, that the canal would cost at least \$50,000,000. I am not qualified to express an opinion as to the accuracy of any of the estimates; but, in considering Mr. Booth's figures, it is, perhaps, well to remember that he is not in favor of the canal proposition, and that, therefore, the wish may be father to the thought. I do not say that it is. I only say that it might be.

LIVERPOOL HUNDREDS OF MILES NEARER.

One of the advantages claimed for this proposed canal route is, that it would bring Liverpool 700 miles nearer to Chicago than by the Erie canal and 368 miles nearer than by the St. Lawrence. And 368 miles is no small thing. It means a great deal more,

construction of the canal, from which it may be gathered that whatever difficulties do exist are of a financial character.

A CONVERTED PREMIER.

The committee appointed last year by the Dominion Senate to investigate the matter, reported in favor of the scheme, and Mr. Poupore, M.P., in a speech delivered in Ottawa a few weeks ago, stated that the Premier, Sir Wilfrid Laurier, had declared to him that he was a convert to the proposed route. The Hon. George E. Foster, Finance Minister in the late Administration, has also placed himself on record as a believer in its utility.

A PROPOSED INTERNATIONAL UNDERTAKING.

Five years ago a convention was held in Toronto to consider the question of deeper canals, delegates being present from the United States as well as from Canada. A year later another convention was held in

Cleveland, when it was decided to try and persuade the Governments of the two countries to each appoint a commission to investigate the matter. These commissions were subsequently appointed, and both reported to their respective Governments in 1897. Briefly, both recognized the importance of deepening the canals, and urged their respective Governments to further investigate.

The chief object of those who projected the idea of the appointment of the two commissions was, that the deepening of the waterways from the upper lakes to the Atlantic should be jointly undertaken by the two governments interested. And the Canadian Commissioners, in their report, expressed the opinion that the fact that the United States had appointed a commission indicated "a belief on their part, that an international route may prove to be the best, if not the only practicable one to reach the American seaboard at New York, as it certainly would be the shortest and best to reach tide water, and also Lake Champlain with its New England frontier."

"The supreme value," continued the report, "to the Northwestern States as well as to the Canadian prairies of an international route for deeper waterways, is that it will combine the shortest route to the Canadian seaboard, Europe and Lake Champlain, with the broadest, deepest, and most speedily navigated waters, and, therefore, the quickest route from the heart of the northern continent to New York."

The United States Commissioners, in their report, said: "The most eligible route is through the several great lakes and their immediate channels and the proposed Niagara ship canal (Tonawanda to Olcott), to Lake Ontario, and that the Canadian seaboard may be reached from Lake Ontario by way of the St. Lawrence river, and the American seaboard may be reached from Lake Ontario, by way of the St. Lawrence and Lake Champlain and the Hudson river, or, by way of Oswego, Oneida, and Mohawk valley and the Hudson river."

It will be noticed that a route by the proposed Niagara ship canal, from Tonawanda and from Lake Ontario to the Hudson, via Oswego, would lose all resemblance to an international one. In the meantime, the whole scheme is in a state of very pronounced quietude.

A TOO COSTLY PROJECT.

It is interesting in connection to note a comparatively recent report of Major Symons, of the United States corps of engineers, in regard to the proposed route to the seaboard, via the Niagara

river, Lake Ontario, Oswego, Oneida, and Mohawk valley and Hudson river. In his report the Major strongly opposes the scheme, and claims it would cost \$200,000,000 to carry out, and \$2,000,000 annually to maintain.

LAKE ONTARIO TO GEORGIAN BAY.

Off and on, for a great many years, schemes have been advanced for connecting Lake Ontario with Georgian Bay by canal, and even the idea of a ship railway has not been without advocates. Just now, the Toronto Board of Trade is actively engaged in advocating a short line railway from the Queen City to Collingwood, to form a link, as President Kemp put it, in the canal system of Canada, while the citizens of Goderich, a short time ago, declared that "the quickest and most direct route from Lake Huron to Lake Ontario, is from Goderich to the port of Hamilton."

One of the least pretentious canal schemes is that which has, several times, been brought to the attention of the Dominion Parliament in regard to a canal from Lake St. Clair to Lake Erie, the object of which is to avoid a certain portion of the Detroit river, which is not as perfect for navigation as desirable, and the ownership of the channel of which is somewhat of an open question between Canada and the United States.

It is not the purpose of this article to advocate one or any of the proposed canal schemes. The object is merely to show, in a brief manner, what has been done, and what it is proposed to do.

Probably all the proposed schemes have much about them which is commendable, but there is no prospect of their all being carried out—at any rate, for a great many years to come. In the meantime, Canadians should look upon the improvement of the canal system as a national undertaking. This means the sinking of local and Provincial jealousies. But, it is to be regretted that a spirit is being manifested which bodes to the contrary.

Water transportation is the cheapest of transportation systems. On deep water it is, on an average, computed to be one-tenth less than on railroads. Mr. Thompson, of Duluth, in his evidence before the special

committee of the Dominion Senate, declared that, for one dollar, there could be carried on the great lakes what it cost the best railways in the United States \$27 to do. Canal transportation is, of course, not as cheap as that on deep water, but it is cheaper than railway transportation. But that is not the only advantage of the canal. As a check upon excessive rail rates it is most salutary. The Erie canal, water ditch and all as it is, is proof enough of that.

Canada must have improved canal facilities. It will cost money, but it must be dealt with in a business manner. When an intelligent, wide-awake merchant realizes, that by the expenditure of a certain amount of money, he can secure the ways and means of profitably increasing his business, he expends the money, even though he may be compelled to borrow it.

This is the way the Dominion should undertake the enlargement of the present canals, and build others that do not exist. But care needs to be taken that the money is expended as a business man would do it, and not after the manner of the average politician.

BUSY EDGE TOOL MAKERS.

The business of the old established firm of James Warnock & Co., of Galt, has gone ahead during the last few months in a manner that is unprecedented in their history.

The volume of trade done by them during the fall and winter months, has surpassed that of the corresponding months of former years by a large percentage, and yet, notwithstanding the large amount of business to be handled, the fall orders were gotten out promptly, which is a matter of great importance to buyers. This is largely due to the fact that the management, being determined to keep pace with the business and fill all orders promptly and satisfactorily, have kept the works running overtime during the greater part of the season, thus largely increasing the output.

They have been amply repaid for the effort by seeing the business steadily forge ahead and increase in every department, month by month, in a most satisfactory manner. The manager, Mr. Hayhurst, is carrying out a policy of expansion, and the business of the country is responding to the effort in a way that is, to say the least, gratifying.

The works are at present running overtime, and taxed to the utmost, which is always a sign of prosperity in such concerns.

**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE CORUNDUM DEPOSITS OF ONTARIO.



SINCE the report of W. F. Ferrier, of the Geological Survey of Canada, in October, 1896, that corundum had been found to exist in paying quantities in the township of Carlow, Hastings county, Ontario, considerable interest has been taken in prospecting for this valuable mineral in that and adjacent counties.

In June, 1897, W. G. Miller was deputed by the Director of the Ontario Bureau of Mines to make an examination of the corundum-bearing rocks and to search for other deposits of the mineral in the district. In his summer's prospecting Mr. Miller found outcrops of corundum-bearing rocks at different points in Hastings and Renfrew counties.

Previous to 1896, two occurrences of corundum in Ontario had been reported. These were small deposits in North Burgess, Lanark county, and in Methuen, Peterboro' county, Ontario. The deposit in North Burgess, however, while being interesting from the mineralogical point of view, seems to be of no commercial importance.

LARGE DEPOSITS.

The deposits examined by Mr. Miller in 1898 were large, extending over a considerable section of four townships in Renfrew and three townships in Hastings county. As the Ottawa, Arnprior and Parry Sound Railway runs to within a few miles of the Renfrew deposits, and the Irondale, Bancroft and Ottawa railway goes almost into the Hastings field, the deposits will never be left undeveloped because of no railway access.

A CHILD THE FIRST DISCOVERER.

The first discovery of the mineral in the Hastings district is said to have been made by a small child over 20 years ago. She and her father were sitting on the rocks resting after a walk through the woods, and the child picked up a crystal of the mineral, which had become detached from the rock, and asked her father if it did not have a shape like the glass stopper of a cruet bottle. As corundum crystals are commonly of a similar form, no difficulty will be had in forming an impression of the natural form of the mineral.

Although attention was directed to the mineral at this time, and again a few years

later, when it was mistaken for apatite, it was not identified till 1898.

CORUNDUM OF COMMERCE.

In commerce, corundum is divided into two classes: Gem stones, which are very rare, and come principally from Burma, and abrasive materials. By "abrasive materials" is meant a substance used for grinding or polishing purposes. Corundum proper and emery are used for this purpose. The powdered substance is made into "emery" wheels, the grains being cemented together by some suitable substance.

Other materials used as abrasives are carborundum, crushed steel, diatomaceous earth, garnet, grindstones, millstones, pumice, quartz crystal, tripoli and whetstones. The chief of these is carborundum.

A HARD SUBSTANCE.

The mineral corundum is one of the hardest natural substances known, being excelled in hardness only by the diamond. Its position in the scale of hardness, arranged by Mohs, is between that of the topaz and diamond. Mohs made use of the numbers from 1 to 10 inclusive in his scale, and selected 10 characteristic minerals of different degrees of hardness in making up the scale, which is as follows: 1, talc; 2, rock salt; 3, calcite; 4, fluorspar; 5, apatite; 6, orthoclase; 7, quartz; 8, topaz; 9, corundum; 10, diamond.

CORUNDUM AND THE ANCIENTS.

Different varieties of corundum were known to the ancients, who made use of it as a gem and as an abrasive material. The emery of the Grecians has long enjoyed a wide reputation. It is thought by some that the native races of America, judging from certain carvings on rocks, have made use of the material.

The principal deposits in the United States are in North Carolina, Georgia, Massachusetts and Montana. The producers in the United States of both emery and corundum are averse to giving publicity to their business, and it is difficult to give figures regarding the output. In 1896, however, 2,120 tons of these minerals were produced, and emery to the value of \$148,231 was imported into the United States, principally from Turkey and the Island of Naxos, one of the Cyclades group in the Grecian archipelago.

CANADA'S IMPORTS OF EMERY.

The imports of emery into Canada for the last ten years have averaged about \$15,000 annually. As manufacturers of emery wheels state there is a combine among corundum producers to keep prices high, the development of the Canadian mines should be a

source of general satisfaction to makers and users of emery.

ORE OF ALUMINUM.

Corundum has been used in the production of aluminum, but as it is in such demand as an abrasive material it is too costly to be used as an ore of this metal. If its price were lower there would, no doubt be a demand for it as an ore, on account of its generally being pretty pure and possessing such a high percentage of the metal.

The uses of aluminum are being constantly extended. Many interesting results have been obtained with it in connection with alloys, one of which is of particular interest in Ontario. It is stated that of the alloys so far examined the one which seems to give the best present results and the greatest promise is that with nickel. The addition of a few per cent. only of nickel to aluminum greatly enhances the strength and toughness of the metal, and adds to its brilliancy without adding materially to its weight.

JUST WHERE GOLD COMES FROM.

All the gold yet discovered has been found either in solid rocks or the debris of rocks broken up by the action of air and water, says a contemporary. But how it got into the rocks is still an unsolved question. Some say that it got mixed with fluid rocks deep down in the earth and was brought to the surface in them. Others say it came from the interior of the earth in molten lava, which became subsequently solidified.

The most probable explanation, however, is that it was originally deposited from the sea. Off the Isle of Man the sea was found to contain one grain of gold to each ton of water. There are said to be five hundred and sixty thousand billions of sea water on the globe, and this contains £42,500,000,000,000,000 worth of gold, or five million times the amount produced in all the mines of the world up to the present time.

Decaying sea plants give rise to a gas called sulphuretted hydrogen, and this causes the gold to crystallize and fall to the bottom, where it gets mingled with the sea-soil. When the sea soil is solidified you have your gold-bearing rock.

When these rocks are broken up by rain the gold gets into the beds of rivers and you have your alluvial gold. Often, these rocks and beds of streams are raised high above sea level by the action of subterranean forces, and this explains how the gold might be found at the tops of mountains and yet have come from the sea.

Curiously, although it pays to work gravel containing 3d. worth of gold per ton, it does not pay to recover the one grain per ton from the sea.

QUEBEC ASBESTOS MINES.

THE asbestos mines of Quebec are the most famous in the world, yielding 85 per cent. of the world's output. Italy is the only competing country, and the industry there is declining. A. B. Willmott, in his book on the mineral wealth of Canada, states that the asbestos is found in veins half an inch to six inches wide in masses of serpentine. The fibres are always at right angles to the sides of the veins, which are most irregularly distributed in the serpentine, cutting it in all directions and being badly faulted. The serpentine is associated with diorites which have been erupted through slates, or occasionally sandstones, of Lower Cambrian age. These serpentines extend from the Vermont boundary northeast almost to the extremity of Gaspé, and in three regions they have been found to contain asbestos. The first is near Mount Albert in the Shickshock Mountains, where the mineral has not yet been found in economical amounts. The second is in Thetford and Coleraine, Megantic county; and the third district stretches from Danville through Orford and Bolton to the boundary.

Active mining is confined to the second district, and to Danville in the third. In the mines, which are in reality large open quarries, the serpentine is loosened by blasting, hoisted to the surface, broken up, the refuse thrown on the dump, and the blocks bearing asbestos carried to the dressing or clobbering house. Here boys, with light hammers, separate the rock from the mineral and sort it into grades. At some mines elaborate machinery has been introduced for this purpose. The first grade contains the fibre over half an inch long well freed from rock. The "seconds" are poorer qualities of fibre, and the refuse makes "thirds." At the Thetford mines, 50 to 70 per cent. of the output grades as "firsts," but at Black Lake the percentage is not so high. The intrusion of dikes of granite at the latter

place seems to have caused sufficient heat to render parts of the asbestos harsher and less flexible. "Firsts" used to have a value of \$125 to \$150 a ton, and selected mineral even brought \$250, but, in 1895, \$70 was an average price for "firsts."

The asbestos is derived directly from the serpentine in which it is found, and the latter is doubtless an alteration product of diorites rich in olivine. After the serpentines were fissured the veins were filled with material

Chrysotile is flexible, non-combustible, and a non-conductor of heat and electricity, and on these properties its increasing use depends. It is spun into yarn, from which cloth is woven for drop-curtains in theatres, clothing for firemen, acid workers, etc. It is made into lamp wicks, and gloves for stokers, and ropes for fire-escapes. It is felted into mill-board to be used as an insulator in dynamos, and as a fireproof lining for floors. It is used to insulate electric wires, and as a covering to prevent loss of heat from steam pipes. It is a com-

ponent of fireproof paints and cements, and, mixed with rubber, it is used to pack steam joints. Indeed, one wonders how we ever did without it. Although Charlemagne is said to have had a tablecloth of asbestos, which he was accustomed to cleanse by throwing in the fire, it was practically unknown until 1850. The Italian mineral was then experimented with, and some years later put on the market. In 1878 the first Canadian mine was opened, and the product steadily increased until 1890, when 9,860 tons, worth \$1,260,000, were mined. There has since been a decline in value, the amount for 1896 being 12,200 tons, worth only \$430,000. Little asbestos is manufactured in Canada, and, consequently, in 1894, we re-imported goods to the value of \$20,000.

"One of nature's most marvelous productions, asbestos is a physical paradox. It has been called a mineralogical vegetable; it is both fibrous and crystalline, elastic yet brittle; a

floating stone, which can be as readily carded, spun and woven into tissue as cotton or the finest silk." In Germany it is known as steinflachs (stone flax), and the miners of Quebec give it quite as expressive a name, pierre a coton (cotton stone).

In advertising, truth should be harnessed to tact, persistency, originality, wit, illustration, novelty, and above all, be in touch with the spirit of the times.—The Ad. Book.



"THE QUEEN, GOD BLESS HER."

This is an interesting reminiscence of Her Majesty's Jubilee in London in 1897. When the royal procession marched up Ludgate Hill, and into St. Paul's Churchyard, stopping in front of the Great Cathedral for the open air service, His Royal Highness the Prince of Wales advanced to address a word to the Queen. The kindly face of the Queen broke into a smile. At that instant a photographic snapshot reproduced the royal smile. The picture is probably the only one ever secured of the Queen smiling. MacLeans' Trade Newspapers produce it for the first time in this country.

dissolved from the sides, and the crystals are accordingly always perpendicular to the walls.

In Ottawa county serpentine has been found in reticulated bands of varying widths in limestone of Laurentian age. In places it carries asbestos of good quality, from which a few tons have been brought as a test. Chrysotile has also been found in Hastings county, Ontario, and in the Fraser River valley, British Columbia.

ONE DAY WITH THE HARDWAREMAN.

"In a life of constant action,
With more grief than satisfaction."



MR. A., the active partner of a large retail hardware house, sat at his desk in company with a worried look, writes "Bena" in Stoves and Hardware Reporter. He had been going over his books, and now, in early December, finds his business up to date has been larger than ever before, but the margin of his profit has been much smaller than in years past, his expenses larger than ever before, and he wonders what will be the net results after taking inventory two months later. This year he has worked harder than ever before, and, with the exception of the valuable assistance of his head clerk, it seemed as if he had done about all the work himself. In addition to the immense amount of actual labor performed, he had worried over the accounts and minor details until he is threatened with nervous prostration, and badly needs a rest. At the beginning of the year he had placed additional help in his store, thinking he could then devote more of his time to buying, contracting and other work to which none of the employees were adapted. He is now thinking how difficult it is to find reliable help on which he can depend to relieve him of some of the cares of his active business life. He has the following clerks in his employ:

Clerk B, who by careful application has been with him 12 years, entering his employ a poor and uneducated boy. He has won the full confidence and good will of A, draws \$75 per month, and accomplishes more than any of his co-workers. A would like to give him charge of the stock and store help, but B has no executive ability in that direction.

Clerk C is highly educated and a brilliant salesman, but thinks himself too lightened to do any dirty work in the stock; he is a little jealous of B, as he is drawing only \$65 per month, and with the ability to earn \$100 if he would only exercise it. This is his fifth year.

Clerk D has been in his present position three years. He is rather slow, and, no matter how much work there is to be done, after satisfying customers' wants, he will stand and talk to them on any subject to

kill time, even if there are other customers needing his attention. He is drawing \$55 per month and will never put forth an effort to make his services worth more.

Clerk E has been with the house two years. While A is in the store E always bustles, but the minute A is out of sight clerk E neglects his work. He is drawing \$50 per month, but A would like to feel justified in paying him \$75.

Clerk F has only been with the house a short time and it is a hard matter to say how he will come out. He has these examples before him and will probably follow in the steps of one whose personality he most admires. He is drawing \$25.

Mr. A, being a good business man, recognizes all these good and bad qualities in the help with which he has surrounded himself. He is a man of liberal business views and much prefers to keep the same clerks in his employ permanently; but the difficulties in his own work are constantly increasing, competition is getting stronger and fiercer, and he sees his former 45 per cent. gross profits dwindle to 25 per cent. Something must be done.

To-day is Friday. On Thursday several large invoices of goods arrived and were now out in the store on the counters, but not checked and put away, having been only unpacked. Saturday is his busy day, and on Friday the store should be stocked up from the storage rooms to meet the requirements of to-morrow's business.

The morning mail is still unopened, but A must leave it to get the store in running order. Fully an hour is spent in giving instructions to the clerks whose lack of interest in the work is shown in the jumble of mixed up orders, poorly arranged displays and unpacked goods.

Mr. A is called to the front to wait on a contractor who wants him to figure on a special lot of bronze metal trimmings specified by an architect who took his numbers from four different catalogues, two of which were large factories, one large and one small jobber whose catalogue A did not have. The numbers called for as many as four different finishes when one finish was probably intended for all. It is expected that the hardwareman will make an old copper lock set look well with No. 3 finish butts on the same door. The contractor also wants figures on the plate and window glass and furnace, the furnace specified

being one of which a competitor, Mr. X, has the exclusive sale. This contractor must have his estimate by 2 o'clock p.m. without fail. The bookkeeper now calls Mr. A back to the telephone, after which he thinks, as he has everything running smoothly in the store, he will attend to his mail, call on the architect, get the specifications straightened out and have the remainder of the day for his office work. As he opens the top letter of some 30 on his desk he looks up and sees three traveling men awaiting an audience with him. He realizes that their time is nearly as valuable as his own and leaves his letters to give these makers of commerce attention, and, after he has finished with them, wonders why his Creator did not make store clerks as conscientious and energetic as traveling salesmen.

It is now noon and the last drummer gone; he snatches fifteen minutes from his dinner hour to finish his mail. On his arrival home he finds his wife in tears on account of her domestic troubles and loss of a cook. He places his arms around her tenderly and says it is such a long time since they have taken dinner out that it will be a pleasant change for them, and he takes her to a first-class cafe. He pretends, for her sake, to enjoy it, and is back to the store again forty-five minutes from the time he left, despondent, with an aching head, to find his store full of customers and not one-half the work finished that he had laid out in the morning. His clerks work from 8 a.m. to 6 p.m., but he starts at 7.30 and quits at 10 or 11 p.m., and returns home.

It is now 11 p.m. He picks up a trade paper and wonders if small capital will have any chance in the hereafter. He reflects and meditates and wishes he could forget his business troubles and give more attention to his family. He wonders if his newly attained commercial ideas will be the means of embarrassing the department stores or his own business the most; and he believes "business is getting by slow degrees to be an exact science." Again he meditates. He knows that X, his hardest competitor, has a clerk with all the good qualifications and none of the faults of both B and C, and this clerk has made an application to work for him. X is only paying him \$70 per month. We will call this clerk Z. A takes his pencil and figures:

	Salaries.	Results.
C, \$65; D, \$55; E, \$50	\$170.00	Poor.
B, \$75; Z, \$75	150.00	Good.

Balance in favor of good men, \$20 per month, and more satisfaction in this instance. Will C, D and E lose their positions? He does not like to discharge them, but what will he do? It is 12 o'clock and Mrs. A is calling him. He goes where we cannot follow. God bless him!

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Scrap Car Wheels

Correspondence Solicited.

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— Manufacturers of —

Iron, Steel, Copper, Brass and Coppered Rivets and Burrs; Wire Nails for every conceivable purpose; Felloe Plates, Axle Clips, Ties; Wrought and Malleable Iron Kettle Ears; Carpenters' Braces; Counter Sunk, Wagon Box, and Hinge Nails (long chisel points), Flashing Hooks, etc.

SPECIALTIES:

The Patent Tubular Rivets and Machines for setting them.

The Patent Bifurcated or Slotted Rivets and Machines for setting them.

The P. & B. Perfected Rubber, Arctic and Leather Shoe Buckles.

The P. & B. Perfected Rubber Clothing and Horse Blanket Clasps.

Hull's Patent Tubular Overcheck Loop.

Cutt's Patent Combination Brace and Hand Drill,

the greatest labor-saving device now on the market.

The Patent Riveter "Canada"

Can be operated with one hand while holding goods with the other. Just the thing for the farmer, the machinist, the teamster, the harnessmaker, and the liveryman. A box containing 50 tubular rivets, assorted sizes, with each machine, for which no extra charge is made. Illustrated Catalogue and Price List on application.



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300 buildings of all kinds plastered
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Standard Steel Toe Calks



WRITE
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Sizes—No. 0 to 7, $1\frac{1}{2}$ to 3 inches. Price \$1.00 Per Box of 25 lbs.
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Connor's Improved
Washing Machine.

WASHING MACHINES

For the TRADE

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TRADE PRICES.

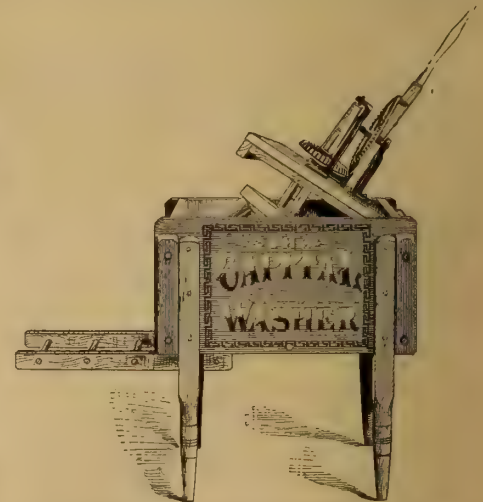
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MANUFACTURE

Washing Machines
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Connor's Capital Washing Machine.



The New Baby
Jumper.



The New Baby Jumper
is all right.

**GLASS,
PAINTS,
COLORS,
VARNISHES
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FACTORY
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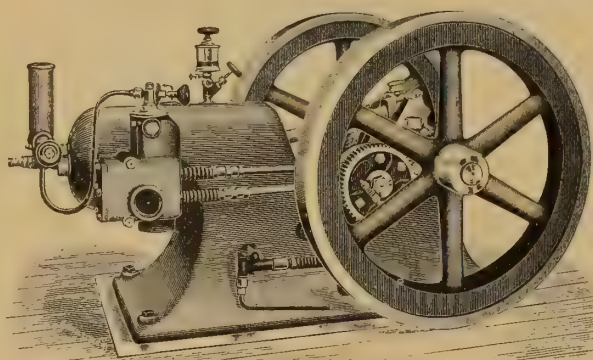
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The "MODEL" GAS ^{AND} GASOLINE ENGINE



THE MODEL.

THE simplest and most economical engine made for users of small power—always ready, no dirt, no wood or coal, no water, no waiting for steam, little floor space, easy to operate.

Low in Price.

We also make Fire and Burglar Proof

SAFES ^{AND} VAULT DOORS

Suitable for Hardware Stores.

STEAM ENGINES, BOILERS, MILL MACHINERY, SHAFTING,
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THE GOLDIE & McCULLOCH CO.

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This Mark is a Guarantee
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Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

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Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our

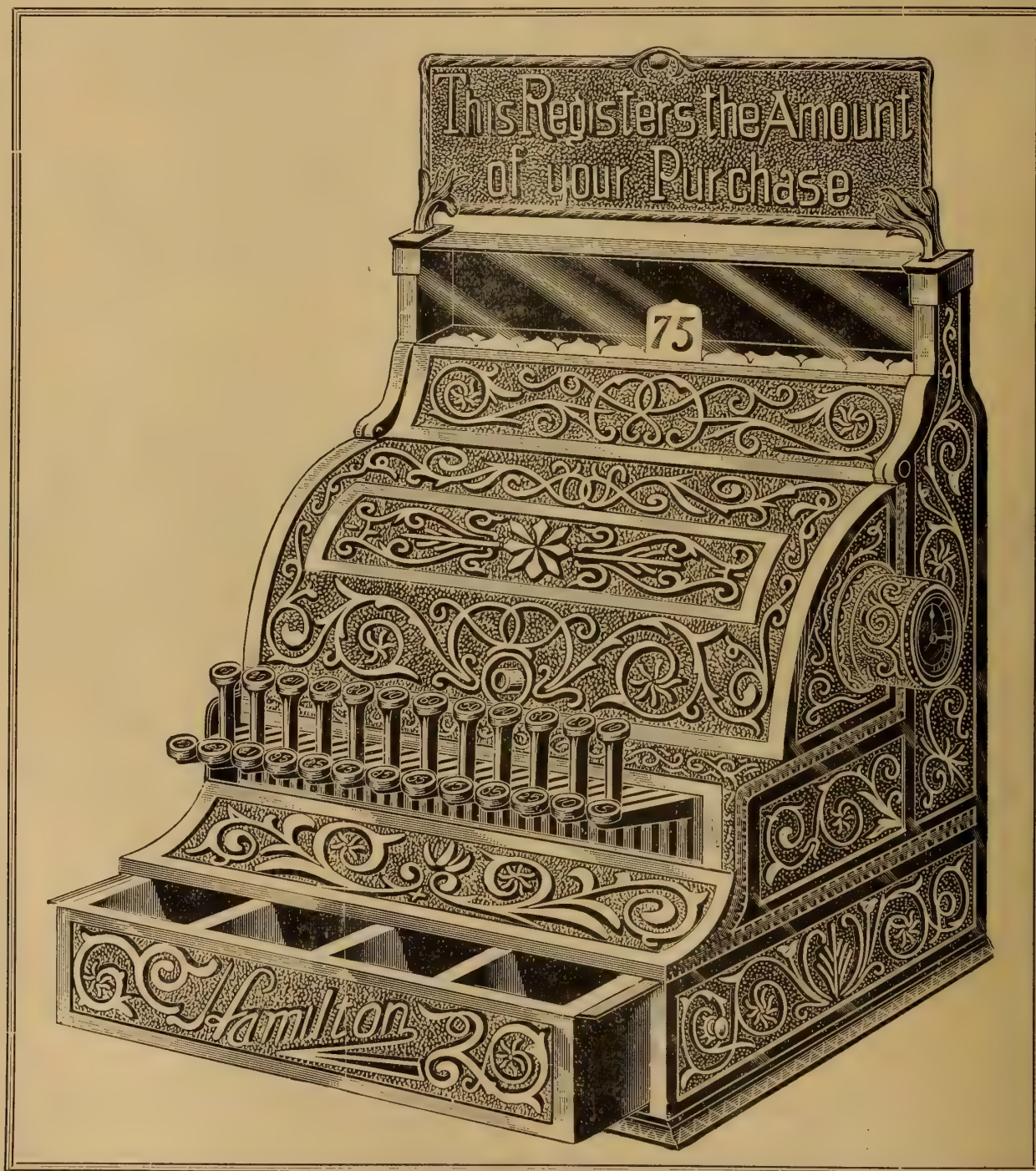
Mixed Paints Varnishes
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C. R. McDowell, Manager Canadian Department

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HAMILTON CASH REGISTER



The Hamilton Cash Register is the National Cash Register with all the latest improvements up-to-date.

Detail Adders and Total Adders of all kinds.

We guarantee to save you from \$5.00 to \$100.00 if you buy a Hamilton Cash Register.

MANUFACTURED BY THE

HAMILTON BRASS MANUFACTURING CO.

LIMITED

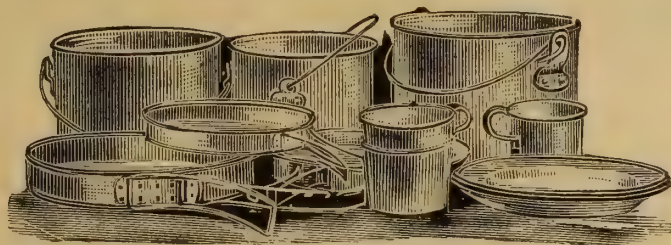
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HAMILTON, ONT.

Aluminum Camping Outfits.



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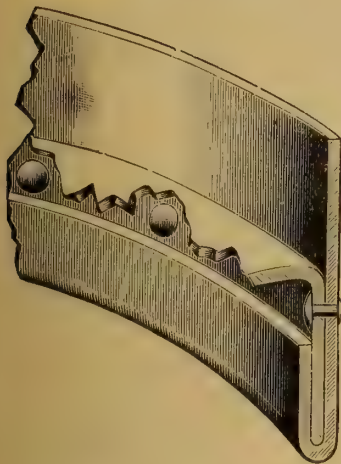


READY FOR USE.

—LIGHT.
—DURABLE.
—COMPACT.

*Gold Miners' Pans,
Folding Camp Stoves,
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Milk Can Trimmings.



Davidson's Patent Milk Can Bottom

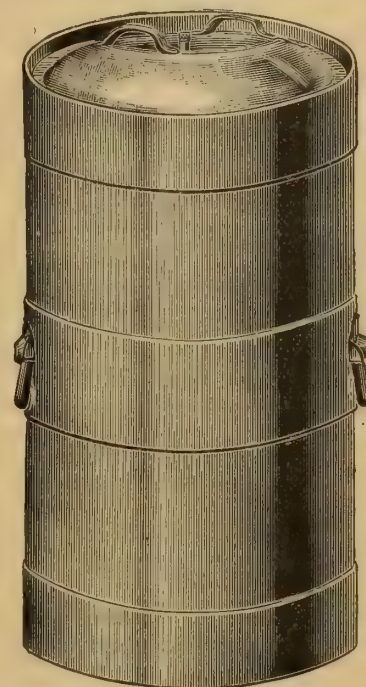
still leads the procession. The reason is very simple, as will readily be seen by cut showing a section.

The Hoop is folded inside in such a way that the bottom fits snugly into it, leaving no space for dirty water to corrode, making the bottom practically in ONE PIECE.

No inside hoop required to make up weight, or to cover a scant edge of bottom.

As nothing but the very best quality of Siemen's Steel can be used in making these hoops, we guarantee that the grain is not broken in bending.

All our Bottom Hoops are made full width, 4 in., same as Top Hoops.



"Standard" Blue Flame



Oil Stoves

WICK and WICKLESS.

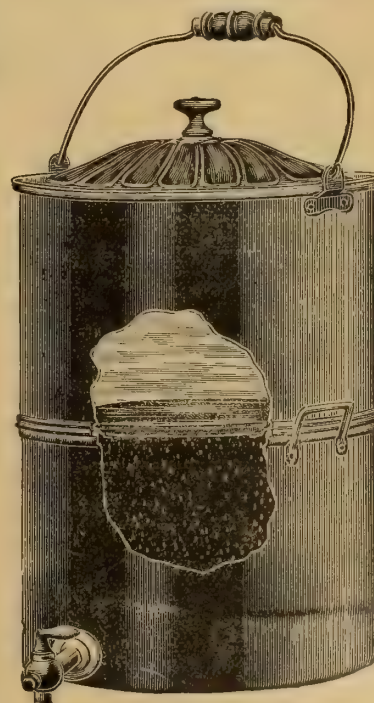
We are sole agents in Canada for the "Blue Flame" Oil Stove that revolutionized the oil stove trade of the continent.

In addition to the above lines, we handle English, French, German, Canadian, and other American Stoves.

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Enamelled Water Filters.

Blue outside and White inside.



OUR BRANDS OF ENAMELLED WARE:

"Crescent" Steel Agate Ware.
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"Star" Decorated.

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Makers of TINWARE, ENAMELLED WARE, COPPER AND SHEET IRON GOODS, ETC.

THE OTTAWA Fire Proof Supply Co.

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ASBESTOS WALL PLASTER,
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ASBESTOS PACKING,
Etc., Etc., Etc.

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*Glove and
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N.B.—Special lines made for the hardware trade. Please write for samples.

Murray's Interest Tables

REVISED EDITION

Most complete tables in the market.

2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, and 8 per cent.

From 1 day to 368.

On \$1.00 to \$10,000.00.

Price, \$10.00.

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UNCONDITIONAL ACCUMULATIVE POLICY
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Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

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Actuary.

J. K. MACDONALD,
Managing Director

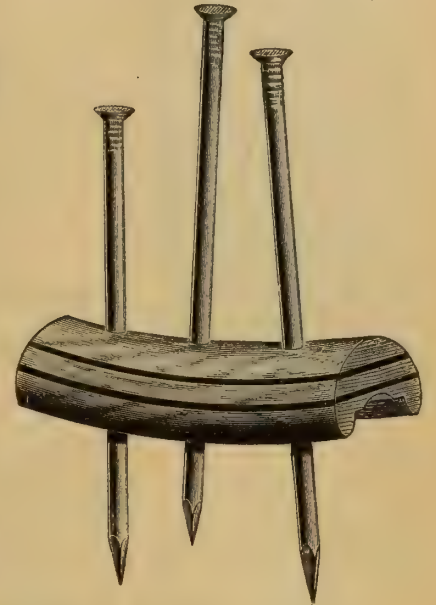
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Bicycle Rim

MADE.

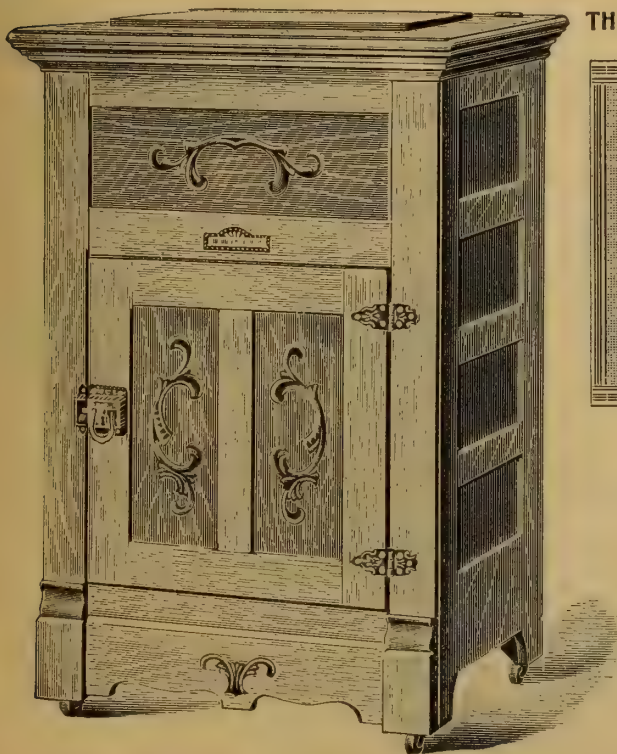
See that your 1899
Wheel is fitted with
this rim and you will
ride with safety.

Write for Samples



**BOWMANVILLE CYCLE
WOOD RIM CO. LIMITED**

BOWMANVILLE, ONT.



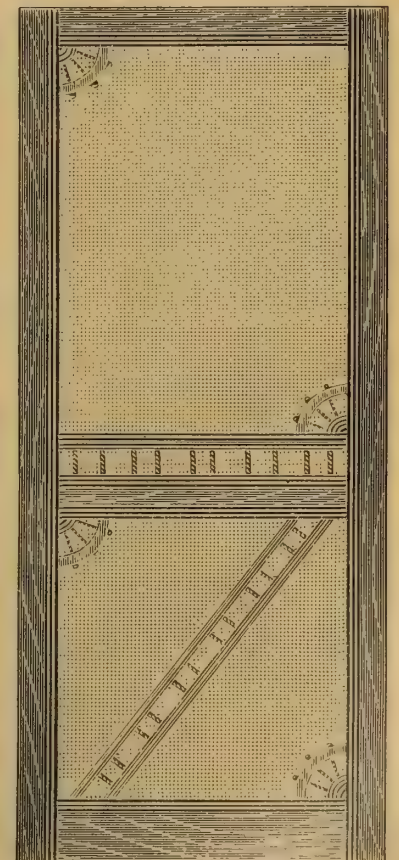
THE BEST SCREEN EVER INVENTED.



PATENT Screen is so constructed that it can be placed on the outside of the window. It fits closely against the sash, leaving no place for flies to enter, and allowing the sash to be raised any distance required and as high as the full height of the screen. When fastened against the sash it will remain there all season, or may be used underneath the window if desired. The object of the inventor was to make a screen that could be placed on the outside, doing away with the bother of putting the screen in every time the window is lowered, also to control the quantity of air coming in by being able to lower the window, leaving a smaller opening without removing screen; made of oak or chestnut; strong frame, well finished wire cloth keyed in.

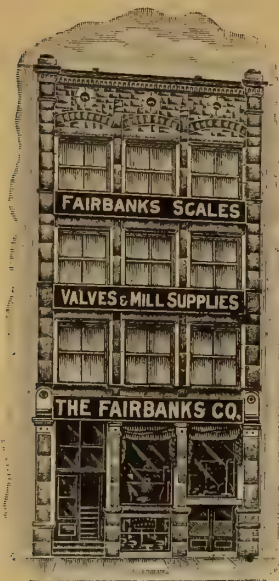
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Ham & Nott Mfg. Co., Limited, Brantford



SUPERIOR GOODS AT THE RIGHT PRICES SEND FOR '99 CATALOGUE.

Ham & Nott Mfg. Co., Limited, Brantford,
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We would like to see YOU
in our Warehouse

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MONTREAL

FAIRBANKS—QUALITY

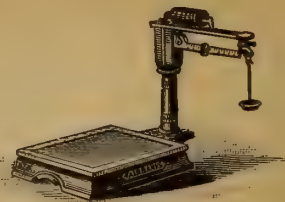
These two words go together. Fairbanks Standard means the highest possible quality.

We offer the Hardware Trade

SCALES

Fairbanks Richelieu and Dominion. Low-priced scales of great value to enable you to furnish your customers Fairbanks Scales at the same price which they can buy poorer scales for.

Fairbanks Standard. The very best goods which experience and skill, combined with large capital and best materials, can produce.



SPECIALTIES—EACH THE BEST IN ITS LINE

Chatillon Spring Balances. A large profit for you in these.

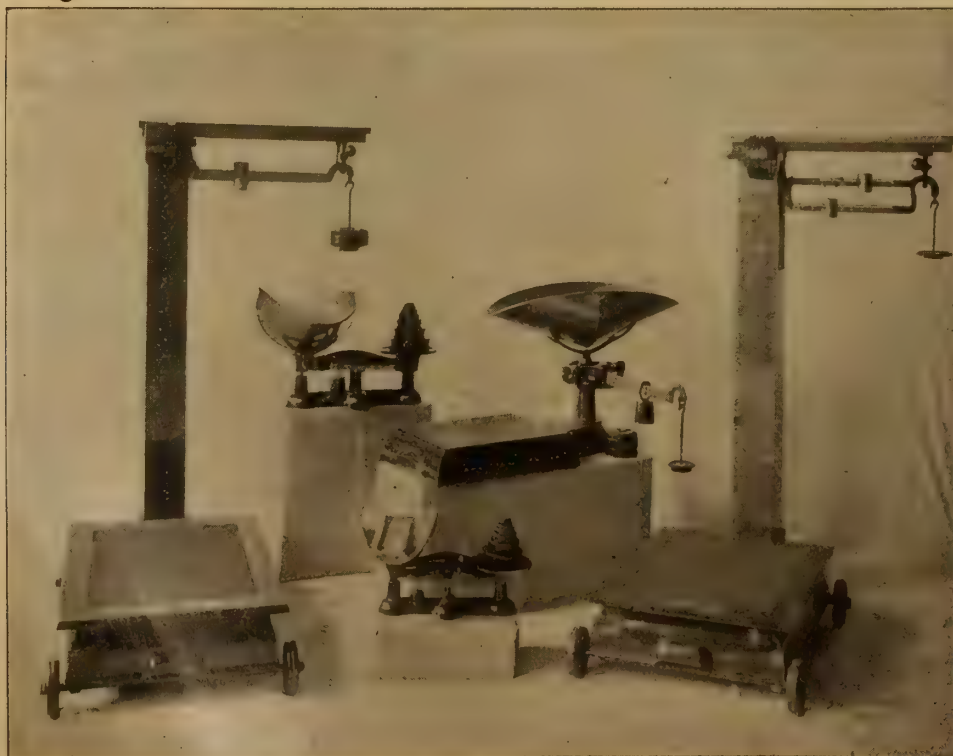
Norton Emery Wheels. A large stock of these wheels always on hand.

India Oil Stones. "Sharp and Quick." In all shapes and sizes for carpenters and machinists

Fairbanks Steam Specialties—Valves, Cocks, Injectors and Packing.
Gas and Gasoline Engines—Our own make. Nicholson and American Files.
Pulleys, Belting, Hangers and Shafting. Trucks and Portable Forges.



Our
Low
Price
Scales
Are
Winners.



Accurate,
Durable,
Sensitive,
Well
Finished,
Attractive.

The following Brands have each a "Record" that competitors have tried to reach in vain:

"QUEEN'S HEAD" Galvanized Iron.	} Tin Plates.
"DOMINION CROWN" Best Charcoal Tissued	
"ALLWAYS" Best Charcoal	
"LYDBROOK" Best Coke	
"DEAN" Terne Plates.	
"ALLWAYS" Canada Plates.	
"DOMINION CROWN" Galvanized Canada Plates.	
"SANDERSON'S" Tool Steel.	
CAMBRIA STEEL CO.'S "GAUTIER" Merchant and Agricultural Steels.	
"DOMINION CROWN" Horse Shoe Iron.	

WILLIAM S. LESLIE.
ALBERT H. CAMPBELL.

A. C. LESLIE & CO., Montreal

Canadian Sales Agents.

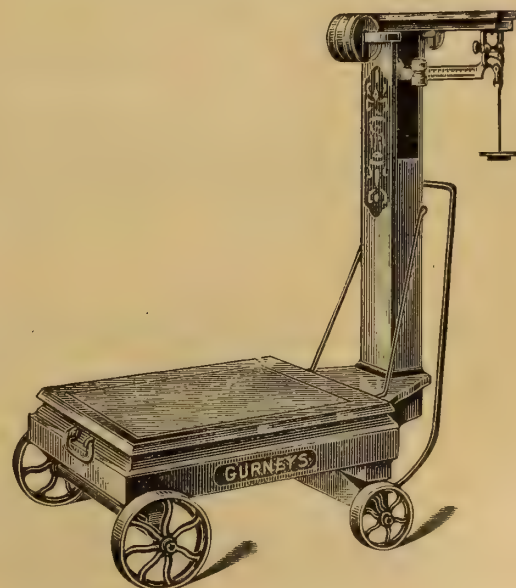
CANADA'S BEST SCALES.

Gurney Accurate
and
Durable

NEW CATALOGUE

DISTRIBUTED RECENTLY.

Have you received a copy of it?



THIS NAME GUARANTEES THE QUALITY.

The Gurney Scale Co.,

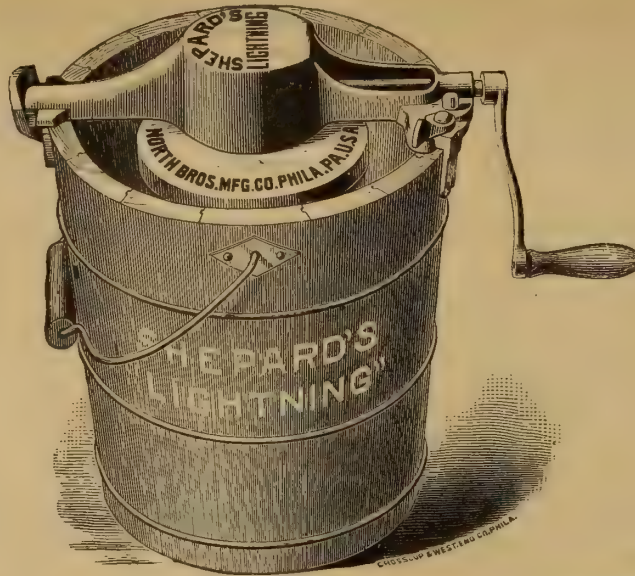
**Hamilton, Ontario,
Canada.**

THEY EXCEL IN

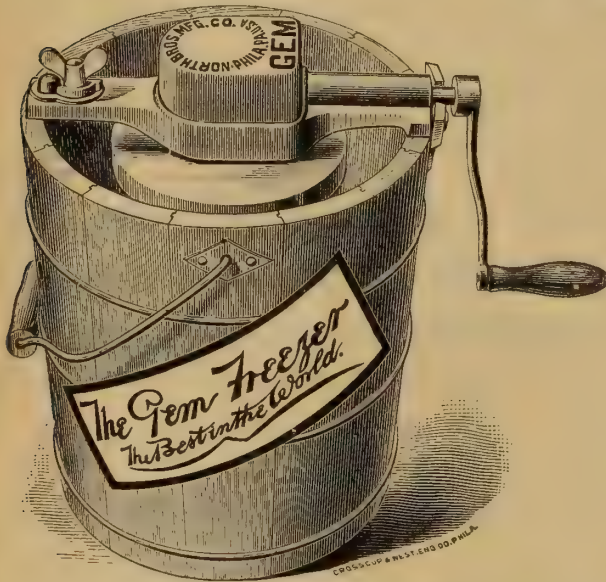
Easy running.
Quick freezing.
Economy.
Convenience.
Practical Results.

THEY ARE . . .

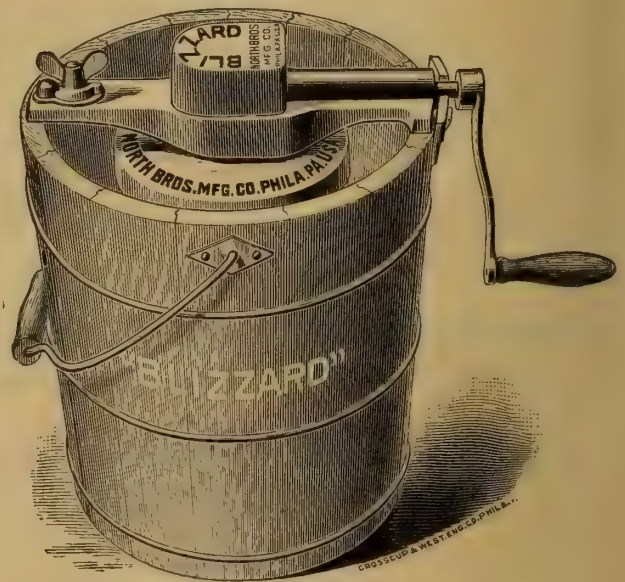
Well advertised.
In demand.
Easily sold.
Satisfactory in use.
Of known reputation.



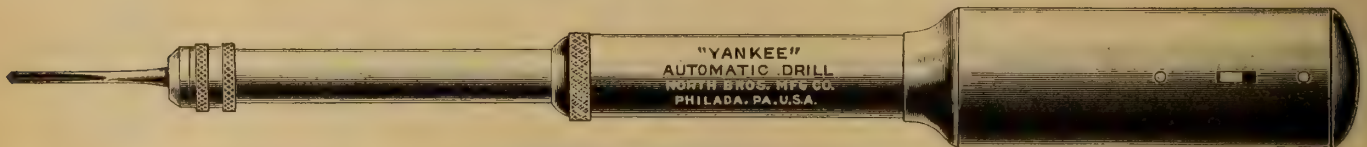
ICE CREAM FREEZERS



Our '99
"Freezer
Book"
Tells all
About
Them.
Sent Free.



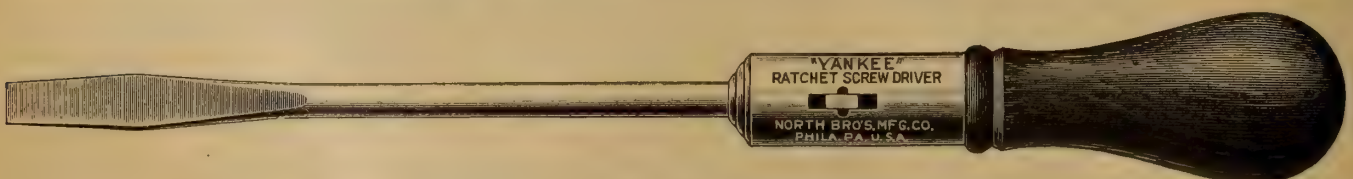
"YANKEE" TOOLS.



"YANKEE" AUTOMATIC DRILL.



"YANKEE" SPIRAL-RATCHET SCREW DRIVER.



"YANKEE" RATCHET SCREW DRIVER.

Send for the "Yankee Tool Book."

Our goods are sold by leading jobbers throughout Canada.

NORTH BROS. MFG. CO., - Philadelphia, Pa., U. S. A.

HAMILTON WHIP CO.

Patentees and Manufacturers

Of famous

"Monarch" and "Napoleon" Rawhide

WHIPS

Textilene and Rubber Lined.

Cheap lines of every description.

Office and Factory:

119-123 Mary Street.

**Champion Cooking
Stoves and Ranges**

Made by

D. J. BARKER & CO.

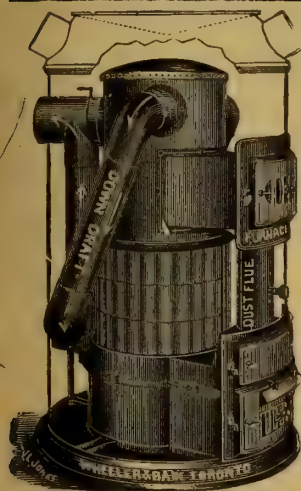
— PICTON, ONT.

Catalogues for 1899 will be ready about August 1st.

Correspondence Solicited.

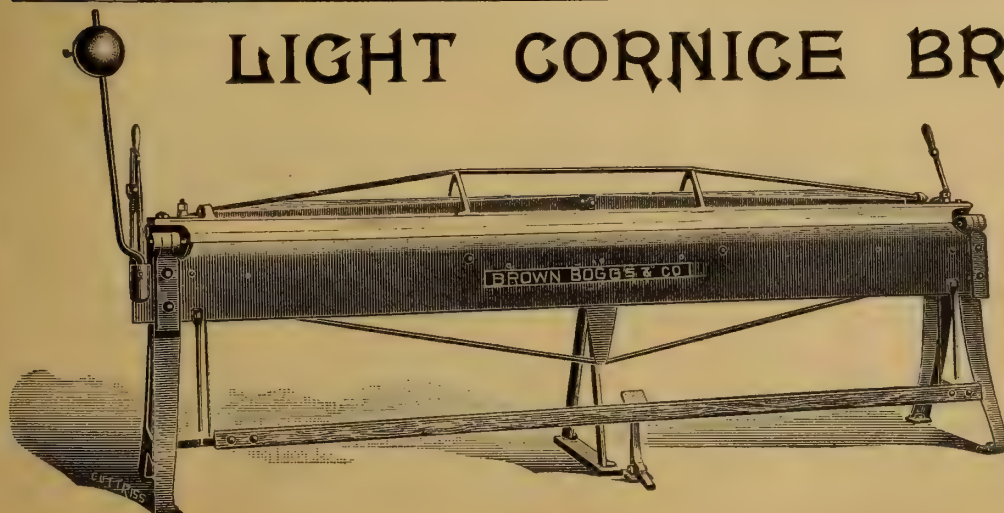
The BOSS Washing Machine PAYS You

by the good work done, thereby silently making SALES and PROFITS for you. TRY ONE and prove it. Many CUSTOMERS write us to say "THE BEST YET," which is very PLEASING. A POSTAL from you will do the rest.

WALTER WOODS & CO.**Hamilton.**

Manufacturers of

Galvanized Iron
Eavetroughs
Corrugated Pipes
Corrugated
Roofing and Siding
Cornices and
Skylights
... and ...
Hot-Air Furnaces

**WHEELER & BAIN**179 King Street East, **TORONTO.****LIGHT CORNICE BRAKES . .**

Made in two sizes, 8 and 10 ft. Guaranteed to bend 24-gauge iron and lighter. We also make 7 other sizes and designs for heavier work.

Send for Descriptive Catalogue.

Brown, Boggs & Co.

Manufacturers Tinsmiths', Cannery
and all Sheet Metal Working Tools
and Machines, Dies, Presses, etc.

HAMILTON, ONT.

MICA AND ITS ORIGIN.



ICA is one of those materials which, like indiarubber, has lately found an ever-widening field of utility, thanks to the growth of incandescent gas lighting, the extended use of the oil stove, and its increasing use in connection with the electrical industry, says an exchange.

Despite this, little is known about the origin and exploitation of that useful mineral, and it is to the geologist that we have to go to tell us where it is to be found. India is one of the principal sources of supply. Mica occurs in small places in many of the crystalline and metamorphic rocks of India, but the large crystals of commercial value occur associated with felspar and quartz, forming an excessively coarse-grained granite, or pegmatite, and frequently intruded into older granites, or into metamorphic rocks. The felspar, which is often orthoclase, but sometimes oligoclase, occurs in large crystals several inches or even feet in length, whilst the quartz, which was the last-formed mineral in the group, occurs in large crystalline masses, but without crystalline outlines. It was moulded around the pre-existing mica and felspar crystals, and frequently we find striated surfaces in the shafts, which are, in reality, the casts in quartz of mica-bundles. That these intrusions have been affected by subsequent earth movements seems undoubted, since the mica sheets are so frequently crumpled; but, at the same time, it does not seem likely that these movements could have been of very great magnitude; otherwise the delicate sheets of mica would have been still more distorted; neither the very flexible mica nor the friable felspar could resist any serious earth movement.

A small and convenient hill having been chosen as the spot for commencing operations upon, a party of the wild hill tribes ascend to the top of the hill and commence sinking a series of pits the whole way down the profile of the hill, about three feet in diameter each, and a few feet apart. These pits are not continued vertically downwards, but in a zigzag shape, but, nevertheless, not so much out of a vertical line, so that a basket containing the mineral cannot be hauled up from the bottom of the pit. The zigzag shape of the shaft is formed by sinking the shaft, first inclining to the left a few feet and then to the right, the head of each cut or notch forming a landing-place or step, and thus the necessity of ladders is obviated. The projecting of salient angles

of the notches form a perfect flight of steps from the top to the bottom of the pit, which seldom reaches to a greater depth than 40 feet, when, as darkness interferes with the workman's progress, the pit is forsaken and another commenced upon a few feet further down the hill. A slight framework of fagots, cut from the neighboring trees, is placed over the mouth of each pit, upon which a man sits, awaiting the signal from below to haul up the basket containing the mica and refuse which has been dug from the pit by means of a very rude pick. On arrival at the surface the good and bad materials are separated. The earth and rubbish are shot down the precipitous side of the hill, and the good mica, which in ragged masses about 18 in. in length, 6 in. broad, and 3 in. in thickness, after having its ragged edges trimmed off with a reaping-hook looking instrument, is placed by itself in a heap, and the bad or refuse, that is, the softer kind, is also placed aside in a heap by itself.

The tests as to whether the mica is good for anything, or whether, as the natives say, "it is alive," are its firmness, specific gravity, and the power of reflecting the countenance free of contortions. The latter test shows the perfect parallelism of its individual plates and consequent likelihood to split well. The heavier the mineral and the more perfect the reflection, the more valuable is the mineral considered. All the plates not standing the necessary test are of a soft and flimsy nature, without any of the brilliant sparkle of the better sort, and are called by the natives "dead mica."

The plates of mica are generally brought to the miners' village, and there, after being slightly trimmed with grass-cutting knives (which are not particularly adapted to the purpose, but are probably the only ones the people are able to purchase), are sorted into different heaps, according to quality and size. The quality depends on the mineral being in a perfectly unaltered condition, its transparency and freedom from cloudiness caused by internal foreign matter, the absence of minor cleavages, which render it liable to split into ribbons and triangles, and the planeness of its fissile surfaces.

Under the present system of working, the blocks of mica raised from the mine are cleaned of all extraneous matter, such as quartz and felspar, in the stripping-room, and when split, either for convenience of size or for the removal of material included along the cleavage planes, the sheets are sent to be "scribed," and afterwards cut with a pair of shears into rectangular shapes along the scribing. Sheets, tin, zinc, or iron, are used as patterns in scribing, and after this operation is accomplished, the mica is ready to be sent into the market.

A TORONTO VARNISH INDUSTRY.

THE writer had the privilege, the other day, of going through the varnish manufacturing establishment of J. H. Farr & Co., Toronto, which is, without doubt, one of the most complete and up-to-date varnish factories in the Dominion, everything being of the latest and most approved style.

They carry a very large stock of varnishes, which are stored in large tanks until thoroughly aged and ripened. These tanks have a capacity of 1,250 gallons each. The tank-room is always kept at a temperature of from 95 to 100 degrees of heat, which has the effect of ageing and settling the varnish uniformly; after being in these tanks for one year, the varnish is tested, and, if found thoroughly ripe, it is then put into cans and kept until required to ship.

Farr & Co. supply some of the largest and most important users of varnish in western Ontario, such as carriage, furniture, piano and agricultural implement manufacturers.

Mr. John Sparrow, junior member of the firm, is the manufacturing superintendent. Mr. Sparrow is always on the lookout for the very best material that can be used in the manufacturing of their goods, and is continually experimenting to get best results.

J. H. Farr & Co. are now putting on the market what they call a general-purpose varnish, which they brand "Elastilite," and is the result of the long and careful experimenting of Mr. John Sparrow.

This varnish has the peculiarity of being suitable for inside and outside work on buildings, doors, furniture, bathrooms, boats, carriages, and in fact anything and everything where varnish is required. This is a varnish that has been very long looked for, and should find its way into every retailer's store and every householder's home. It brushes easily, flows freely, dries well, and is said to be durable as the best coach body varnish.

This is one of the firm's specialties, of which it manufactures several, such as bicycle enamel in all colors, both baking and self-drying; liquid coach enamels in all colors; varnish stains in all colors, and many more which are to be found at all the best hardware stores in the country.

See their ad. on opposite page?

"Here," said Benny's auntie, showing the little fellow a coin, "is a penny 300 years old. It was given to me when I was a little girl."

"Great Cæsar!" reasoned little Benny to himself some time later. "Pa said she was no chicken; but I didn't know she was as old as Methuselah."

J. H. FARR & CO.

Varnish Manufacturers



Toronto, Ont.



Elastilite Varnish

Is the result of many years' careful study and experimenting to produce what may be termed a general varnish. Elastilite Varnish is peculiarly adapted for both inside and outside work, such as Furniture, Doors, Carriages, Carts, Buggies, Boats, anything and everything requiring varnish. It brushes easily, flows freely, dries well and is as durable as the best Coach Body Varnish. Put up specially for the Hardware Trade, in $\frac{1}{2}$ -pint, pint, quart, $\frac{1}{2}$ -gallon and gallon tins.

Sept. 5/99 R. G. M. for J. H. Farr & Co.

GENUINE ONLY WHEN SEALED WITH OUR BRASS CAP AS OPPOSITE.



We Manufacture Bicycle Enamels

in all colors, both baking and self-drying. Put up in tins from $\frac{1}{2}$ -pint to 1-gallon size.

We Manufacture Liquid Coach Enamels

in all colors. Put up in tins from $\frac{1}{2}$ -pint to 1-gallon size.

We Manufacture Varnish Stains

all shades The above are some of our specialties which can be had from any good Hardware Store.

J. H. FARR & CO. 6-16 Morse St., **Toronto**

See page 30 for publisher's remarks.

LEWIS BROS. & CO.

*** MONTREAL. ***

It will pay you to write us for prices of the
following lines :

Screen Doors and Windows
Green Wire Cloth

Harvest Tools	Hay Fork Pulleys
Spades and Shovels	Lawn Mowers
Horse Pokes	Horse Clippers

Gem Ice Cream Freezers
Poultry Netting
Paris Green
Binder Twine
Cordage

Wire	Scales
Sheep Shears	Spring Hinges

PAINTS and OILS

All Lumbermen and Miners' Supplies.

LEWIS BROS. & CO.

CANADIAN AGENTS for

30 St. Sulpice St.



S.S. and Rifleite Smokeless Powders
and Disstons' Celebrated Files.

WINDOW DRESSING IDEAS FOR HARDWAREMEN.

SOME DEVICES FOR ATTRACTING ATTENTION.

SOME dealers call to their aid various devices, besides the actual goods displayed, in order to draw attention to their window. On a pole, on the outside of the walk, a large hand is sometimes fastened, the index finger pointing to the window. Some such phrase as "See that Window," neatly painted on this sign, makes it a material help to the display.

Another novelty which is used to good advantage is a ticker. A small electrical contrivance, which can be wound up to run a considerable time, is attached to the inside of the pane, and its constant and plainly-heard ticking interests nearly everyone passing.

DISPLAYS OF PAINTS.

In arranging displays of paints an effort should be made to attract the attention of amateur painters, who do not know exactly what they want, and are, therefore, in need of hints which will help them in the matter. Regular painters do not, as a rule, need any assistance in this particular.

Ready-mixed paints could be made the background of a good display, by piling gallon cans in rows, one above the other, with from one to three less in each row till the top row consists of but one can.

In front of this similar piles of half-gallon cans and quarter-gallon cans could be made. In front of this, on a stand about 18 inches high and 6 inches wide, dry colors could be shown in saucers or in any flat receptacles.

To one side, an empty barrel labelled turpentine might be placed on end, with a couple of putty bladders on it. At the other end a barrel labelled linseed oil might hold a dozen or so pound packages of paris green. Between these barrels, and in front of the dry colors, an assortment of paint and kalsomine brushes could be arranged.

A card might be inserted in some central position stating that: "We sell everything you need to paint your house, barn or fence."

CUTLERY DISPLAY DEVICES.

In almost every case where a cutlery display has attracted my attention, stands have been used to show off the knives, etc.

One dealer uses a large wooden anvil, another a couple of gilded stumps, on the top of which two stuffed owls are perched. Another has three wooden shields sus-

pended from his ceiling. Into these, pocket knives are stuck in almost every conceivable position. They generally arrange the knives so that those of a similar price are grouped together. In addition to these stands, a good display of assorted cutlery—table knives, forks and spoons, carving sets, nut sets, etc.—are arranged on the floor of the window, which is raised to about three feet above the street level.

KITCHEN WARE DISPLAYS.

There are several excellent styles of displays of kitchen ware followed by the downtown Toronto housefurnishing stores, and all of them have one idea in common. They show off a great variety of kitchen goods rather than direct attention solely to one variety.

I saw one good display of this kind the other day. In this window two stands were fitted into the back corners of the window. These stands rose in steps to about four feet high. Both were dressed alike. A large brass-bottomed kettle surmounted each; below this bake tins of every shape and style, pie tins, etc., were piled up. A step lower down was devoted to stewing-pans, dish-pans, etc. On the next step a fine assortment of nice coffeepots, teapots, and kettles, were displayed. On the floor a great variety of wares such as are useful in the kitchen were arranged in small piles. Price-tickets were everywhere. There were also a few cards directing special attention to novelties, the usefulness of which are not generally known.

WINDOW DISPLAYS OF BICYCLES.

Bicycle displays take, possibly, the greatest amount of the window-dressers' time in the hardware stores throughout the country in the summer months, and some very good displays are seen.

There is no question but that the dealer who has a repair establishment in connection is at a great advantage over the dealer who has not, and he should endeavor to make this advantage show in the window. A small motor, such as a good mechanic should be able to make, might be used to keep one or both wheels of a bicycle moving. One contrivance, used by the agents in Toronto of one of the best wheels, may give an idea of what is meant.

This house has in its window a large, wooden framework, to which eight or ten

wheels, without the tires, are attached by their hubs. A single linen thread, driven by a motor below the window floor, and driving on the rims of the wheels, keeps every one of them moving, and is a splendid advertisement of the easy-running qualities of the wheel.

In case of there not been a repair shop in connection, a good display of bicycles and their parts can be made by hanging one or two from the ceiling close to the back of the window, placing a couple more on stands nearer to the front and another near the front standing on the floor. A display of parts (and here it would be well to show as big a variety as possible) might be placed on a couple of low stands at either side of the window, either in their boxes or in small piles. A few pairs of tires could be hung over the seats and handles of the bicycles shown. A mirror at the back of the window would be of considerable advantage.

A SKATE DISPLAY.

Skates can be displayed well in any window. The best display I saw this year was gotten up by building about three feet from the window front a wall of boards about five feet high, covered with red cotton. The ends of the wall converged towards the window, there thus being sides as well as a background. To this wall, and to the sides and floor of the window, the skates were attached in rows, according to make and quality.

Two large cards in central positions on the wall directed attention to the make and the price of the skates shown. At either side of the window, about half a dozen hockey sticks were stood on end, the handles being grouped together. A variety of straps, a few hockey pucks, and a number of skate accessories, such as keys, sharpeners, nuts, bolts, etc., were arranged in a small pile in the centre of the floor space.

APPEARANCE OF STORE FRONTS.

Of late years there has been almost a revolution in the appearance of store fronts. The architects have discontinued designing store fronts after one or two models, and now windows are constructed in an ever-increasing variety of ways.

The importance of well-constructed and well-situated windows has been often brought to my notice, but never so effectively as was brought out in conversation with a Toronto dealer, who is one of

the best window-dressers I know. In his store there are two windows, in shape alike, and placed on either side of the door. But one of the windows he estimates at three times the value of the other. The reason assigned for this is that a thick stone wall between the store and the one west of it partly hides one window from the passer-by. The other window is at the corner, and though the side of the building is of stone, there not being any side window, it does not project any, and so does not hide the display within. The result is that a display in the poor window might be better dressed than the other, but the good one will attract attention and sell more goods in a day than the other would in three.

A decided improvement has been made in many windows by replacing the heavy wooden framework of a window by a bright and neat-looking brass frame.

A WINDOW OF BROOMS.

A window of brooms may not be handsome, but it can, however, be made attractive, and that is after all what is most desired in a window display.

From the ceiling can be swung a large bunch of brooms, arranged to form a sort of canopy. To this it would be well to attach a good-sized card with a catchy and appropriate phrase upon it. Brooms should also be attached to the wall in a tasteful manner. Then, in the bottom of the window should be placed a number of brooms, some being stacked after the manner of rifles or arranged some other prominent way, while on the floor others should be laid with the handles placed alternately in opposite directions.

A couple of stacks of small brooms, suitable for children, with the handles pointing upwards might be placed with effect on either side of the window.

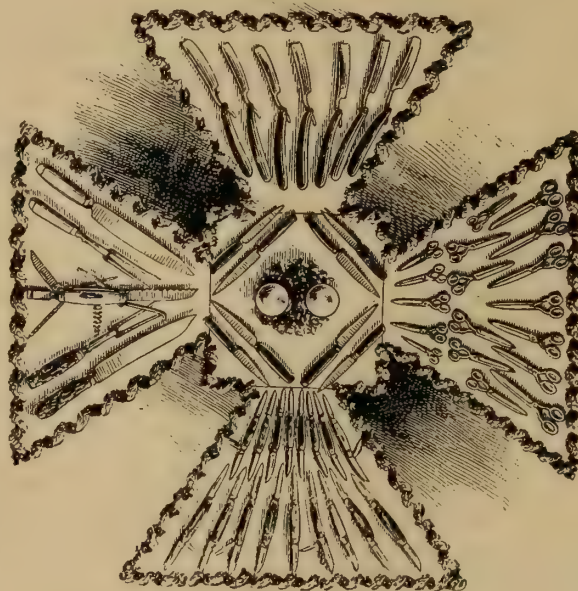
Scattered through the display should be price tickets and word tickets with such phrases as "Direct from factory," "These brooms sweep clean," "These brooms are made for sweeping; not for pounding hen-pecked husbands."

DISPLAY OF GARDEN TOOLS.

A good display of garden tools might be made during the spring time. This could be made by covering the floor with a thin coating of earth. At one side of the window, grass seeds, vegetable seeds and flower seeds might be shown; on the other, garden hose, watering cans, grass hooks, spades, hoes, rakes, etc. A simply arranged display of these goods would be just as effective as an elaborate one.

A MALTESE CROSS FOR CUTLERY.

The Maltese cross herewith shown was the design of a Pittsburg hardware dealer, and was made of half-inch pine. First was cut a square 11 x 11 inches in size, then four pieces, 12 inches wide, 21 inches long, tapering to five inches at the inner ends. Stripes five inches wide nailed at the back held them together, the result being a Maltese cross. In the centre of the square, which was also the centre of the device, a hole three inches in diameter was cut. The back of the design, where the cross pieces were, was then covered with paper. The front of the cross was covered with a fine quality of white cheese cloth, fastened in pleats. Around the edge was black tissue paper cut in stripes and fastened in such a way as to make a rope border. The tissue paper was purchased in packages of 25 yards for 25c. a package. On one panel of the



A MALTESE CROSS.

cross were fastened penknives with ivory, horn, pearl and stag handles. The next panel contained carvers, with a large combination knife, showing saw, hoof pick, etc. In the third panel were razors, and in the fourth scissors. The square in the centre was decorated with black handle French paring knives. In the diamond shaped space made by the arrangement of the paring knives two electric lamps were placed through the three inch hole, and were held in a slanting position by the black tissue paper rope. This was arranged so as to fill the hole and keep the lamp sockets from touching, thus preventing any possibility of a short circuit.

STABLE APPURTENANCES.

A window display of goods for use in the stables and barn is a good thing to have once in a while. A very good one might

be made by building at the back and at one side of the window partitions sufficiently strong to hold the goods to be attached to them. To the partition at the back, goods for the stables, such as cow-chains, halters, cow-leaders, curry combs, ox balls, bull rings, etc., might be arranged to form any design—such as stars, circles, crosses, etc. To the partition at the side, goods used in the barn—door hinges, grain scoops and shovels, hay forks, lanterns—could be well displayed by making a grain scoop a centre-piece, around which is placed a circle of various styles of door hinges and a larger one of scoops and lanterns. The grain shovels and hay forks could be attached so as to have all the handles pointing towards the central scoop.

On the floor of the window bulkier goods for use in either barn or stables, such as weigh scales, watering pails, manure forks, etc., could be shown to advantage. A couple of cards would increase the effectiveness of such a display. One of them might read: "We keep everything you want for your barn or stables," and the other, "Our prices for these goods are rock-bottom."

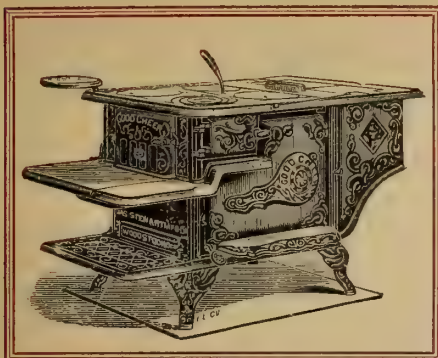
DAIRY UTENSIL DISPLAYS.

The bulk of the average hardware merchant's trade comes from the farmer. Therefore, a series of displays of special interest to this class of buyers might be a good thing, from now onward throughout the spring.

In localities where there are no creameries, the spring will bring an inquiry for dairying utensils until the cheese factories open, so a well-arranged display of these goods would by no means prove unprofitable.

A unique and attractive display of these goods could be made by building the window space to represent a dairy. Board partitions could be made to fit the back and sides of the window space. These could be kept and used to advantage for many other displays, and shelving could be put up for the milk and cream tins, etc. A coat of whitewash would make the display realistic. A doorway would have to be made in the back wall, of course. The centre of the display would necessarily be the churn. It would be of great advantage, if possible, to have someone who knows how to make good butter give a demonstration of the value of the dairy appliances shown, at some fixed hour every day for a week.

Besides the churn and the milk tins, care should be taken to put in conspicuous places samples of the scales, thermometers,



Second to None



"GOOD CHEER"



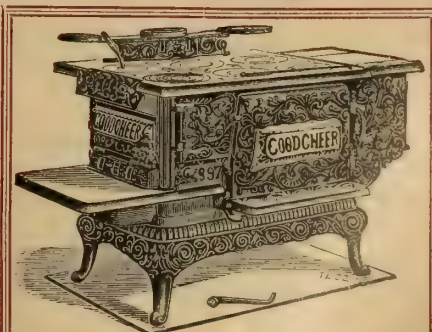
Stoves AND Ranges

The "James Stewart" Stoves are well and favorably known from the Atlantic to the Pacific, and have been sold for 54 years.

Will be pleased to furnish Catalogues to the trade on application, or Circulars to anyone writing us for same.

**THE JAMES STEWART MANUFACTURING CO.
LIMITED.**

**WOODSTOCK,
ONT.**

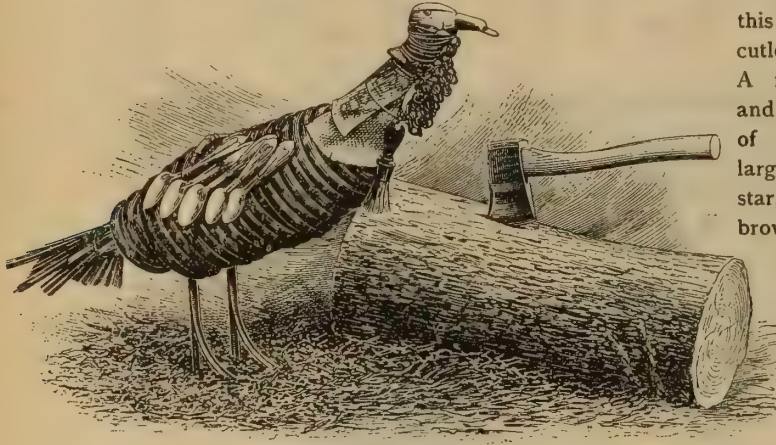


butter-testers, etc., which are kept in stock, and which are always in more or less demand at this season.

A "TURKEY" DISPLAY.

The "turkey" display shown in the accompanying illustration was arranged by a Californian hardwareman, and is practically suitable for the Thanksgiving or Christmas season.

The body of the turkey was made of wire netting covered with gas hose. For legs 10-inch single harness hooks were used, and for tail fly killers and a small whisk broom. The wing feathers were represented by spoons, while the neck was made of



A THANKSGIVING OR CHRISTMAS WINDOW DISPLAY.

brown-colored lamp wicks. The head was formed of copper wire and a pulley, topped with a teaspoon bowl. The eyes were hob nails, beak a finger spade and whiskers a shaving brush. A pot cleaner did duty as wattles. The ground was represented by 3-penny nails, and the block and axe were placed beside the turkey as a pleasurable suggestion of its appearance upon the table. The display was elaborated by placing a nice range in one end of the window, with the oven door open disclosing a double roasting pan. On the range was placed a large porcelain cooking pot, porcelain tea kettle and a nickel-plated coffee pot. Hanging upon the wall about the range were kitchen articles. About midway of the window was placed a low table upon which carvers were artistically arranged. In the other end of the window the turkey was placed.

INTERCHANGEABLE DISPLAY BOARDS.

The window of a Toronto retail hardwareman was displayed in a manner which attracted a good deal of attention. At the back of the window, and at one side of the same, were a number of perpendicular boards, about two feet long by eighteen

inches broad, closely fitting into each other. Each board was covered with dark blue felt. One board was devoted to displaying butcher knives, another to penknives, another to scissors, another to painters' and glaziers' knives, another to various carpenters' tools, such as chisels, gimlets, etc.

The advantage of these display boards is that they can be used singly as well as together.

The floor of the window was about three feet from the ground, and from about its centre slanted toward the back. In the middle of the foreground a small stand, about 3 feet x 1 foot, in old gold plush, was devoted to a display of fancy silver cutlery.

To either side of this ordinary table cutlery was shown. A few feet back and at each side of the window a large five-pointed star, the centre in brown plush, the points in blue plush, was studded with penknives, and from these to the back carving sets, fancy dinner

sets, fruit sets, etc., were shown in their boxes.

PICTURES THAT ATTRACT.

There is one retail establishment in Chicago, says The Dry Goods Reporter, which manages to keep interesting pictures in its show windows at all times. The pictures have nothing to do with the goods displayed, but they simply cause people to stop and look, and the display is supposed to do the rest. It would seem difficult to always have something that people would stop to see, but it needs only to be well managed. It is not necessary to go to much expense to obtain these pictures, for lithographs are cheap, if obtained from the right sources. There are certain weekly and monthly papers which give lithographs that are usually of sufficient interest to be attractive in a window.

A sufficient number of pictures of current events can be obtained to keep the assortment fresh and the "between times" may be filled in by pictures of historical events.

To get the most benefit out of this sort of a window attraction the goods must be shown with such taste or the prices placed so conspicuously that the persons who stop to observe the pictures cannot but notice the display.

DO NOT CROWD THE WINDOW.

The window display which shows one line of goods is more likely to sell many lines than the window which displays many lines is likely to sell one line.

The reason is that many articles confuse the passer-by.

When it is the one line that is displayed, it by no means follows, that every one who passes will require it, but there are certainly some who will, particularly if the display is a seasonable one, and, of course, it should be nothing else.

But a good window display like an advertisement, leaves an impression which leads to purchases being made, not only while it lasts, but for some time afterwards.

There are some hardware windows in which may be seen lying promiscuously about the window, covered with dust, axle grease, cutlery, skate straps, halters, tools of various descriptions, giving one the impression that the goods were merely placed in the window while the shelves were being dusted, and not with a view of displaying them. Fortunately, however, such displays as these are the exception.

Do not put more than one or two lines in your window at once. And do not forget to change the display every week or two.

DISPLAYING WASHING UTENSILS.

Washboards, tubs, wringers, mops, washing machines and washing utensils generally can be arranged to form a striking and attractive display providing the window is of fair proportions.

In the centre of the window a tub might be placed on a bench or on two chairs, just as many a housewife does. Fasten a wringer to the tub in the usual orthodox manner. In the tub place a washboard, and if you can construct the figure of a washerwoman in the act of washing or turning the wringer, the effectiveness of the display will be considerably increased.

A washing machine with a figure in the act of working it might be utilized as a centrepiece instead of a tub as already suggested. Or the one may be used at one time and the other at another.

Washboards may be stacked in twos, threes or in greater number about the floor of the window, while the same articles may be used to form a background. Washboards made to form a square in the centre of the window, can be made to form an attractive if not a pretty display.

In a display of this kind such things as mops and rubber window scrapers should not be overlooked; neither should price tickets.

PORTLAND CEMENTS

Best German, Belgian and English Brands

Fire Bricks, Fire Clay
Flue Linings, Flue Covers
Drain Pipes
Scotch and Canadian Tiles
Calcined Plaster
Granite Hard Wall Plaster

Wheelbarrows
Scotch Cranes and Derricks
Cement Concrete Mixers
Garden Vases
Ornamental Chimney Tops
Mortar Stains

A full stock of Builders' and Contractors' Supplies.
WRITE FOR QUOTATIONS.

W. McNALLY & CO., Montreal

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker.

Office and Sample room, 22 St. John St, MONTREAL.

Tinplates, Galvanized Sheets and Other Metals

GALVANIZED SHEETS—"Comet" brand,
perfectly flat, soft and workable.

TINPLATES—"Gwyned," "Comet," "Lincoln,"
all of best Siemens Steel, and heavily coated with tin.

TERNEPLATES—"Regina" brand,
superior in quality and finish.

IMITATION RUSSIA SHEETS—"Comet" brand,
regular and special sizes—will not scale or crack in working up.

BLACK PLATES—"Comet" brand, pickled, cold rolled and close
annealed—for enamelling and deep stamping purposes.

STEEL SHEETS—Best Siemens, and best Siemens Basic Steel.

SHEET IRON—D. & D. "Britannia" brand.

NORWAY IRON, also Nail Rods and Swedish Tool Steel.

HOOPS AND BANDS—Best Soft Steel.

COPPER SHEETS—Hot and cold rolled—Bar Copper, and
Seamless Copper Tubes, etc.

BRASS—Roll and Sheet, Rods, Tubes, etc.

COIL CHAIN—B. B. Crane Chain, Trace Chain, etc.
Agricultural Implement Chain.

CANADA PLATES—Half Bright, Full Polished.

INGOT TIN—"L. & F.," and "Straits."

PIG LEAD, SHEET ZINC, SPELTER AND OXIDE.

WOODEN HANDLES—Fork, Rake, Hoe, Shovel, Sledge, Pick,
Hammer, Pevie, etc.

AXE HANDLES—Octagon, Hand-Shaved and Standard Patterns.

RAILROAD AND CONTRACTORS' SUPPLIES—Wheel-
barrows of all kinds, Drag and Wheel Scrapers, Plows, etc.

— also —

HOLLOWWARE—English and American—Solid Steel—Tinned and
Enamelled.

CUTLERY—(Bishop & Co., Sheffield),
Table Knives and Forks, Carvers, Pocket Knives, etc.

A YEAR'S OUTPUT IN COAL IN TWO CANADIAN PROVINCES.

WHILE complete returns are not at the time of writing to be had, yet enough is known to warrant the statement that 1898 was a good year for the coal trade of the two Canadian Provinces of Nova Scotia and British Columbia.

In Nova Scotia it had been anticipated that 1898 would witness the shipment of large quantities of coal to Boston for use in the gas works at Everett, controlled by the Dominion Coal Co, the chief mine owners in Nova Scotia. Unfortunately, it was the unexpected that again happened, for the gas works not being completed the coal was not shipped. In spite of this fact, however, the experience of the coal industry of Nova Scotia for 1898 was by no means unsatisfactory.

INCREASED NOVA SCOTIA SHIPMENTS.

According to the estimates of Hon. R. Drummond, the aggregate shipments of the Cape Breton, Cumberland and Pictou mines were 2,150,000 tons of coal during 1898, against 2,035,000 tons for the preceding year.

The shipments from the mines of the Dominion Coal Co. in Cape Breton alone are estimated at 1,100,000 tons, an increase of 25,000 tons, and from the properties of the General Mining Association a gain of 10,000 tons is conceded. From the Springhill mines, in Cumberland county, 321,000 tons are believed to have been shipped. This is 77,000 tons more than in 1897. The Joggins mines are credited with an increase almost equal to that quantity. The increase in the shipments from the Springhill mines was made during the last three or four months of the year.

Pictou county mines appear to have produced about the same quantity as in 1897.

A SURPRISING FEATURE.

One of the surprising features in connection with the mining operations, particularly in Cape Breton, is that the shipments were approximately the same as the production, something most unusual.

Another astonishing thing in connection with the Cape Breton mines was that, for the first time in its history, employment was general all over the island. As a rule, the conditions have been the very opposite.

Coal mining in Nova Scotia is now placed as the very first industry in importance in the Province, farming coming second, fishing third and lumbering fourth.

PROSPECTS FOR 1899.

The coal production of the present year promises to exceed that of all previous years. The Dominion Coal Co. has contracted to supply something like 800,000

tons to the gas works at Everett, and, according to a recent statement of a member of the company, its mines are now turning out about 175,000 tons a month.

It was not long since asserted that production at the Nova Scotian coal mines had about reached its limit. There appears to be about as much ground for this statement as there would be to say that the capacity of the Dominion to support an increase in population had reached its limit.

ONE MINE'S POSSIBILITIES.

Only a few weeks ago, in the Legislative Council of Nova Scotia it was stated that in the Springhill coal field alone there was eight or ten times more coal "than had been taken out of the whole Province during the past 113 years; than all the coal ever shipped from Nova Scotia from the first year that a thousand tons were shipped." And then we know from the annual reports of the Dominion Geographical Survey that new possibilities are continually opening up in Nova Scotia in regard to coal production.

But, aside altogether from the extent or area of the coal fields of Nova Scotia as a factor for the increase of the coal output of the Province, there is a gradual improvement going on, through the installation of modern machinery, whereby the mines are made to yield more liberally. Take the hoisting machinery as an example.

HOISTING CAPABILITIES.

According to an article by Hon. R. Drummond, in The Halifax Herald, a half dozen years ago it was considered something of a feat when from a Cape Breton colliery the men hoisted 1,000 tons in 10 hours. But there are now three collieries which can hoist in 10 hours twice that quantity without apparent effort. And it is estimated that when the new slope is completed in one of these mines that it alone will be producing as much coal as the whole Province did 20 years ago. During August last the three collieries referred to produced 40,000 tons each. Mr. Drummond contends that the following collieries can be counted upon to produce the quantity set after each:

Colliery.	Daily Output.	300-day Output.
Reserve	3,000	900,000
Dominion No. 1.....	2,500	750,000
Caledonia.....	1,900	570,000
Intercolonial	1,100	330,000
Hub.....	900	270,000
G. M. A.....	1,000	330,000
Springhill	2,500	750,000
Intercolonial	800	240,000
Acadia.....	1,000	300,000
Total.....	14,700	4,440,000

Prospects for the coal industry for 1899

are most encouraging, and it is anticipated that the increase in the production will be in the neighborhood of 500,000 tons.

THE OUTPUT IN BRITISH COLUMBIA.

The coal output in British Columbia for the 12 calendar months of 1898 was a record one. The aggregate quantity mined by the New Vancouver Coal Co., the Wellington, the Union and the Alexandria was 1,117,915 tons. In 1897 the figures were 798,458 tons, or 419,457 tons less. The individual output, in tons, of the four concerns was:

	1897.	1898.
New V. C. Co.....	319,277	520,222
Wellington	232,255	315,738
Union	246,926	236,395
Alexandria.....	.....	45,560
Total	798,458	1,117,915

It will be noticed that in the above figures no account has been taken of the production in the Crow's Nest Pass coal fields, deliveries from which began last year. Taking together what was produced by the mines on Vancouver Island and that by the latter, it is estimated that the total output of coal in British Columbia last year aggregated about 1,125,000 tons.

The foreign shipments from the Vancouver Island mines were also of a gratifying nature, being 164,091 tons in excess of those of 1897, as the following table shows:

	1897.	1898.
New V. C. Co.....	233,349	403,535
Wellington	188,139	232,642
Union	180,282	129,684
Total.....	601,770	765,861

Just as for its foreign trade, the coal industry of Nova Scotia is largely dependent upon the New England States, so, in British Columbia, the industry is largely dependent upon the Pacific States of the American Union for its export trade.

B. C. COAL FOR SAN FRANCISCO.

Nearly all the coal exported from British Columbia goes to San Francisco. A San Francisco authority places the quantity of British Columbia coal imported in 1898 at 651,208 tons. This is by far the largest quantity received from any one source. The total importation of coal into San Francisco last year was 1,833,273 tons, so it will be seen that British Columbia contributed over 36 per cent. of the total supply. There were eight sources of supply besides British Columbia.

With the Crow's Nest Pass railway, now nearly completed, the coal output of British Columbia is certain to be largely increased by the mines at Fernie during the ensuing year.

STRANGER—"Is your society here very select?"

ARIZONA AL—"See them graves over there? They was all filled by fellers who came to our dances without invitashuns."



The Canadian Rubber Co.

Of Montreal

Manufacturers of . . .

HIGH-GRADE RUBBER GOODS

Of all kinds.

<i>Factories and Head Offices</i>		MONTREAL
<i>Ontario Branch</i>	- -	TORONTO
<i>Western Branch</i>	- -	WINNIPEG

The most profitable goods to handle, because most reliable.

All garden hose made with Patent Seamless Tube.

Rubber packings for all classes of fitting work.

CATALOGUE AND PRICE LISTS ON APPLICATION.



SWEDISH VERSUS CANADIAN IRON METHODS.

Paper read by Mr. James Douglas, New York, before the Mining Convention, Montreal.

IRON, its production and its manufacture, is even more essential to the industrial progress of a nation than sulphuric acid. The former is the bone and sinew of the mechanical arts, the latter of the chemical. The vitality of the nations of the world may be gauged by the amount of iron and sulphuric acid they can absorb and assimilate. Tried by this standard, Canada is certainly not conspicuous for energy. Many reasons, some valid and some futile, can be adduced as arguments to account for her backwardness. The most cogent apology for the inferior position she occupies in the list of iron producers is found in the absence of coal in Quebec and Ontario. But, as these sections are supposed to contain iron ore of exceptional purity, to be covered with almost boundless forests, and to possess sulphur ores rich enough for export, a comparison is irresistibly suggested with Sweden, where exactly similar conditions exist, and which is, nevertheless, one of the most notable iron-producing and manufacturing centres of the world. Climatologically, and in many of its geological and physical features, Sweden not only resembles, but is identical with, Canada.

The iron deposits of Sweden exist in two groups. The largest, rivalling in size, though not in purity of ore, those in Michigan or Minnesota, are in the extreme north, at Gallivare, Luossavaara, Swappavaara and Keranavaara. These ores, abundant in quantity, rich in iron, but highly phosphor-etted, lie within the Arctic circle, where till lately there have been no means of transportation and no open ports in winter, where population is scanty, and where no mineral fuel is available for their reduction. But a railroad, from the Gallivare mines to Lulea on the Baltic, now gives egress to the ores of this mine. At that port some of the ores, richest in phosphorus and poorer in iron, are subjected to concentration, with the view not only of securing a product higher in iron, but a valuable bye-product in the separated apatite. But these mines will rise into still greater prominence when the railroad projected across the Scandinavian Peninsula to a winter port on the German Ocean has been built. At that point iron furnaces will be erected, to be fed with English coke, and thence ore will be shipped at all seasons to foreign markets. Already, over 1,000,000 tons are shipped from these Norrbotten mines, which, even in 1876, were treated by Akerman in his report, as worthy of notice, as he points out that in consequence of the difficulty of transportation and the extreme sparseness of the popu-

lation they were utilized only to an inconsiderable extent. Yet, within 20 years, they have become one of the most important factors in Swedish industrial progress. Their enormous reserves may be estimated by the size of four only of these deposits which reach the horizontal area at surface of 1,275,000 square yards. As distances are being obliterated by ever cheapening appliances for carriage, such ore deposits on one side of the German Ocean are as available for use in Britain as though they existed within the bounds of the little island itself.

By all accounts Canada has large deposits of manganiferous iron on Hudson Bay, and still larger deposits of higher grade ore on Ungava Bay. The Newfoundland iron ore beds are notable for size and accessibility. If these ores from the hyperborean forests of Sweden can be profitably procured to feed the furnaces of Europe why not yours? For, to the modern sailor, the Atlantic is no wider than the Baltic Sea or German Ocean.

It is not to those iron ores which Sweden exports, but to those she treats at home, and to the methods she employs for overcoming her metallurgical deficiencies that I want to draw your attention.

Through Central Sweden with a general trend to southwest and northeast is a band of Azoic rocks, the equivalent of our Huronian, about 100 miles wide and 200 long. Forest covers most of this tract. Within it are the mines, which, during the 17th and 18th centuries, produced the ore that made Sweden one of the most important factors in the iron and copper markets of the world. When cheap coal and coke became the fuels of the iron and steel makers, Sweden's prominence waned. For a time after Bessemer's great invention was introduced, Sweden's pure manganiferous pig iron was almost the only material to which it could be successfully applied. But improvements in the process, and subsequently the adoption of basic converter lining, deprived Sweden of the advantages which, in this respect, her ores afforded. Yet nothing daunted, Swedish industry and metallurgical skill prevailed, and to-day she has resumed, not her former commanding position as one of the largest of iron and steel, but her former importance, as the manufacturer on a large scale of the purest grades of those metals in the world.

The intelligence and the flexibility with which Swedish ironmasters have adjusted themselves to new conditions and new requirements, is one of the most interesting phenomena of modern industrial life, and one well worth studying by Canadian metal-

lurgists. Again and again Sweden has led the way in certain directions, and been diverted from that path by the invasion of her markets by more favorably situated competitors, and yet she has often found a new outlet for her energies and her wonderful products. To-day, more than ever, quality, not quantity, is the aim of her ironmasters.

The ore in the central zone of Sweden is not all of exceptional purity, or equally low in low sulphur and phosphorous, and high in iron. Moreover, the mines which yield the present ores are not the largest, and the exceptional excellence of the product is secured, not only through the purity of the raw material, but also by dint of infinite care in the manufacture. The mining and metallurgical operations of even the largest concerns, are conducted on what would be regarded on this side of the Atlantic as an insignificant scale. The total output of Sweden in 1897 was:

Pig iron.....	533,800	metric tons
Charcoal iron blooms	189,500	" "
Bessemer steel ingots	197,500	" "
Seimens-Martin	160,800	" "

The furnace and plants generally are on a comparatively diminutive scale.

The furnaces in blast in 1897 were:

Blast furnaces	111
Charcoal hearths.....	292
Bessemer converters.....	17
Seimens-Martin steel furnaces....	38

The charcoal furnaces are small, the height being from 11 to 18 meters, or 36 to 59 feet. The average annual product of each blast furnace is 4,800 tons, or only 13.1 tons a day, and that of the largest at (Domnarfoet) 40 to 45 tons daily. (Akerman Swedish Mineral Industry, Iron and Steel Institute, August, 1898.) Akerman gives the production of wrought and ingot iron and steel as follows, by decades, from 1833 to 1887, from which I extract the extremes:

Date.	Quantity produced in metric tons.	Export'd.	P.C. of export to production.
1887.....	463,147	209,756	45.29
1833.....	67,795	60,039	88.56

It speaks well for the steady growth in production of the country that similar figures for every decade since 1830 show not only a gain in production, but a reduction in exports, and, therefore, a healthy development of its internal resources.

All the furnaces in Sweden make yearly only as much pig iron as one of Carnegie's great Duquesne stacks pours forth weekly. And yet, so intimately interwoven is the iron trade of Sweden with other of her staple

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industries, that the wealth of that thrifty little land, with a population (4,824,150 on December 31, 1893) rather less than that of Canada, depends in no small measure upon it.

Sweden's present prosperity is in great measure due to the association of three great branches of industry under common management, namely: 1. Iron and steel making; 2. Lumbering, and 3. Wood pulp manufacturing. Dissimilar as these pursuits seem they are in reality closely allied. The high character which the product of the furnace possesses, is attributable to the use of wood fuel alone. Not a breath of sulphur gas is allowed to taint the iron and steel during its reduction or subsequent manufacture. The iron companies which treat the purest ores find it more profitable

There the highest grade of lumber goes to the pulp mills, the second quality to the lumber mills, and only inferior and small lumber to the charcoal kilns for use in the blast furnaces, while mill refuse and sawdust are converted into gas for other metallurgical purposes. In 1896 the company's mills turned out 57,369 St. Petersburg standard=113,590,620 ft. broad measure and 5,500 tons of pulp. The pulp is made by both the sulphite and mechanical processes, the latter being possible through the possession of water power of 15,000 h. p. capacity. The sulphurous acid for the sulphite process, comes from the old Falun copper mines, from whose ores, in addition to the sulphurous acid for the pulp mills, over 2,000 tons of sulphuric acid are made annually.*

So many difficulties met, however, in economically carrying on the manufacture at so many places, on account of the expensive communications existing, that it was decided about 1870 to concentrate the iron manufacture, and for that purpose build new works, for which a place was selected at one of the big waterfalls of Dala river. This new works is Domnarfoet, which is the largest iron works in Scandinavia, and the largest in the world, based on charcoal as fuel. To it belongs 160 iron mines and a number of waterfalls, together capable of developing about 50,000 horse-power, of which, however, only a small part at present is utilized. The works consist of the following departments:

Charcoal-making plant, eight large kilns.

Blast furnace plant, with five blast furnaces, six Westman's roasting furnaces, regenerative blast heating stoves, etc.

Bessemer works with five converters, etc.

Siemens-Martin works with four furnaces of 15 tons each.

Rolling-mill plant for sheet iron and plate, wire rods, rails, beams, channels, angles and all kinds of merchant iron.

Forge for hammering tool steel and miscellaneous tools.

Plate-pressing works for boiler heads and similar articles.

Horse nail factory.

The whole iron and steel manufacture, as stated, is based on charcoal by the aid of which it is produced from the purest ores.

The highest grade of steel for cutting and other tools, for springs, coining dies, etc.

The principal manufactures at Domnarfoet are:

Pig iron, extra pure.

Ingots, blooms, billets, and slabs of Bessemer and Siemens-Martin steel.

Billets specially made for seamless cold drawn tubes.

Projectile steel in large quantities for the English and other armies and navies.

Bars in various shapes and steel and wire nail rods, wire rods, rivet rods of Bessemer and Siemens-Martin steel and Swedish Lancashire iron.

Hammered bars of Swedish Lancashire iron.

Rails.

Boiler and ship plates.

Sheet iron, corrugated and smooth.

Pressed and flanged work of plate.

Machine-strengthened shafting

Hammered steel (miners' drill steel, tool



A STREAM IN A CANADIAN GOLD DISTRICT.

to make a moderate output of extraordinary quality with wood as fuel, than to treat large quantities with mineral fuel. But in order to secure wood good enough for metallurgical purposes at a permissible cost, the iron companies own large forest reserves and convert the better grade and larger sizes of timber into dimension lumber and wood pulp. As an example: The largest works in Sweden are those of the Kopparberg Co. (the Stora Kopparberg Bergslags Aktiebolag) whose property is situated in the Province of Dalicorlia. The company produces about 1-10 of the total output of iron and steel of Sweden. The forests cover an area of 736,000 acres. Its sawmills are on the Baltic at Skutskar.

But the lumber trade of the company's activities is insignificant compared with its iron and steel operations. These are best described in the company's own circular, prepared for the Stockholm Ex, in 1897:

In the year 1733 the company built their first iron works, Svartnas, based on the then discovered iron mines at Vintjarn. One iron work after the other was, later on, added, each intended for its own particular specialty, so that the company has manufactured iron at some 20 places in all.

* These Falun copper mines, which have been worked for 700 years continuously, have yielded since opened 500,000 tons of copper, and were, in the 17th century, probably the largest producers of copper in the world. They now yield only 400 tons of copper annually, with a large list of bye-products.



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The products of Domnarfoet are, to a large extent, exported to the great countries of Europe, to America, Austria, the East Indies, China and Japan.

The company also own two other works, Korsa and Ag, where especially soft Swedish wrought iron is made. The annual production of iron and steel is: 55,000 tons pig iron; 35,000 tons Bessemer ingots; 26,000 tons Siemens-Martin ingots; 4,000 tons charcoal iron blooms; 47,000 tons rolled and hammered iron and steel of all kinds; 1,000 tons horseshoe nails, bolts, nuts, spikes, etc.

The works yearly use 450,000 cubic metres of charcoal, 150,000 cubic metres of this being made in the kilns at Domnarfoet and Skutskar.

Although rails are enumerated as one of the many articles into which their crude material is manufactured, comparatively few are made. Swedish steel is too precious to be turned to such vulgar use, and, therefore, in the very few yards of the steel yards themselves one generally sees English or Welsh rails.

It is by thus combining these reciprocally related interests that it is possible to make all three remunerative. Yet, even thus, the life of all would be short; in fact, the iron trade would have been extinguished long ago, but for the practice of strict economy in the consumption of the vegetable fuel and the application of the rules of scientific forestry.

Only about 13 per cent. of the total area is under cultivation and yet she exports to Britain \$8,000,000 worth of dairy produce. In traveling through the country the farms are so scarce and so hidden away in the valleys of the vast forest clad ranges, that one wonders where even the 50,000 kilometers of agricultural land are, and still more, how what there is can be made to yield such a balance of agricultural exports, considering how large a proportion of the population is engaged in mining and manufacturing pursuits, and is therefore a home consumer. By far the most extensive forests are in the north, and are not available for the fuel supply of the great metallurgical establishments of the middle zone. The forests within reach of the furnaces have, therefore, been replanted and recut many times over during the centuries of mining and metallurgical activity. It is found that the most economical life of the coniferous trees is 40 years, within which period they attain a diameter of from eight to ten inches; you seldom or never see a larger tree in Sweden or Norway. Calculating from the

statistics alone, to make 55,000 tons of pig iron and charcoal blooms at the Kopparberg furnaces, there are consumed 450,000 cubic metres of charcoal, or approximately nine cubic metres to the ton of ore, or one ton of charcoal to the ton of iron of both grades; for one cubic foot of pine charcoal weighs five lb. to seven lb., say six lb., therefore, one cubic metre weighs 210 lb., and if 55,000 tons of iron ore are made at the Domnarfoet works with 450,000 cubic metres of charcoal, each ton of iron consuming 8.2 cubic metres of charcoal, or 1,722 lb. One cubic foot of pine weighs 18.9 lb., and, therefore, a cubic foot of charcoal weighs approximately 33 per cent. of the weight of one cubic foot of the same wood but, taking, the reduction of bulk into account, the charcoal from one cubic foot of wood weighs only from 20 to 25 per cent. of the weight of the original wood, or 5.04 lb. Akerman (In Swedish Mining Industry Iron and Steel Institute, 1898) gives the consumption of charcoal per ton of pig iron at from 4.8 to 8.2 cubic metres, a very large margin of difference for different ores, different charcoals, and different establishments. This, therefore, rather conforms to above calculations of 8.2 cubic metres per ton of pig and charcoal blooms, at the works of the Kopparberg Co.

American practice agrees with these figures, for instance: 1,922 lb. of charcoal is consumed to the ton of pig in the Bay Farm Furnace, Michigan; 1,911 lb. of charcoal to the ton of pig on the Morgan Farm, Michigan; 2,456 lb. of charcoal to the ton of pig on Deer Lake, Michigan; 1,760 lb., or 80 bushels of 22 lb. each, make one ton of iron at the Hinkle Furnace.

But the weight per bushel would indicate coal of exceptional quality. The weight, and not the bushel measure, is the only reliable standard, for the weight of the bushel of charcoal from the different woods is as follows:

White pine.....	9.8	White ash.....	16.3
Spruce.....	11.2	Beech.....	17.3
Poplar.....	12.2	Yellow Birch.....	18.7
Hemlock.....	12.8	Maple.....	18.9

Experiments in the Pyrenees in 1869, gave as the mean for hardwood charcoal 21.9 lb.; and for softwood charcoal 16.4 lb. per bushel of 2,150.42 cubic inches. Marcus Bull's investigation of American woods gave per bushel of:

Red cedar.....	12.52	Ash or birch.....	19.25
White pine.....	15.52	Maple or oak.....	21.23
Yellow pine.....	17.52		

The wide discrepancies indicate the extent to which variations in manufacture influence results. Similar incongruities of statement are as to yield of wood and charcoal per acre. Sir Lothian Bell states on the authority of Chevaudier, that the forests of the Vosges yield 72 cwt. of dry wood per hectare=2.471 acres, or 29.2 cwt. per acre.

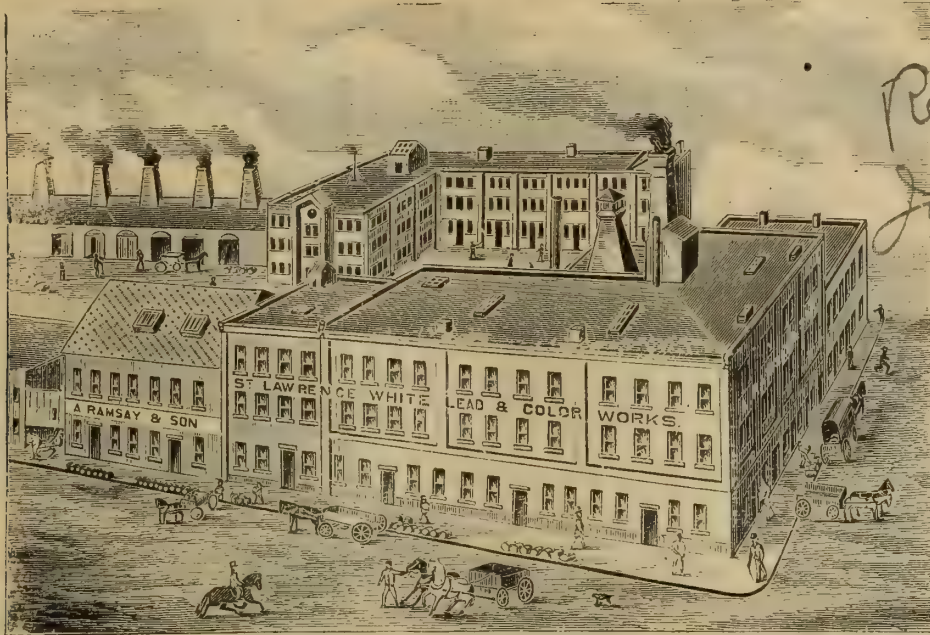
Assuming even this high figure to be correct, Sir Lothian demonstrates easily the impracticability of running a large furnace that would consume 40,000 tons of fuel yearly on charcoal; 217 square miles would have to be cut over, and yet, if using coke, 1.33 square miles of a three-foot seam would feed the furnace for half a century.

Birkenbine in T. of A. I. of M. E. VII., 149, tries to reduce the consumption of charcoal to the standard of cordwood and arrives at the conclusion that four cords of soft wood will make one ton of pig iron. If therefore, only one cord of wood, as he states, is the yield from an acre of replanted timber land, and four cords are considered as making one ton of pig, to make the output of 500,000 tons of pig 2,000,000 acres must be cut over annually. In fact, however, when a large quantity of charcoal iron was made in the United States the forest lands around the furnaces were stripped and yielded about 30 cords to the acre. Forest conservation and careful cutting and replanting are not practised.

Akerman in his report for the Philadelphia Exhibition on the Swedish Iron Industry, gives still lower figures for the yield of Swedish forests. He states that 2.8 hectares, or 6.92 acres must be cut over annually to yield a ton of pig iron. Since the Centennial year Swedish methods of both forestry and metallurgy have improved, Of course, on their system of cutting the forest is perennial, unless destroyed by fire or wind. Moreover, in the above estimates, the assumption is that only the large wood is consumed, whereas with modern kilns good charcoal is made of inferior material, and in the producer, sawdust, and large twigs and anything that will burn is turned into gas, and thus made into as valuable a fuel as the best of wood. Nevertheless, only in very favorably situated districts, can large quantities of iron be made with charcoal. Such a district would seem to be the original seat of the iron smelting industry of the old regime on the St. Maurice, Province of Quebec, whose waters are said to drain 200,000 square miles of forest land, and at the same time literally breed bog ore, so that the mineral and the fuel to reduce it grow simultaneously side by side. (Griffen T. of A. I. of M. E., XXI, 974.)

Yet, if there be pure iron ore accessible to a territory covered by good timber, and intersected by waterways and provided with abundant water-power, the establishment of such a combination of enterprises would confer a national benefit and should be profitable, for the value of such iron and steel is not to be measured by the price of common pig or ordinary steel. At present, the price of most Besse-

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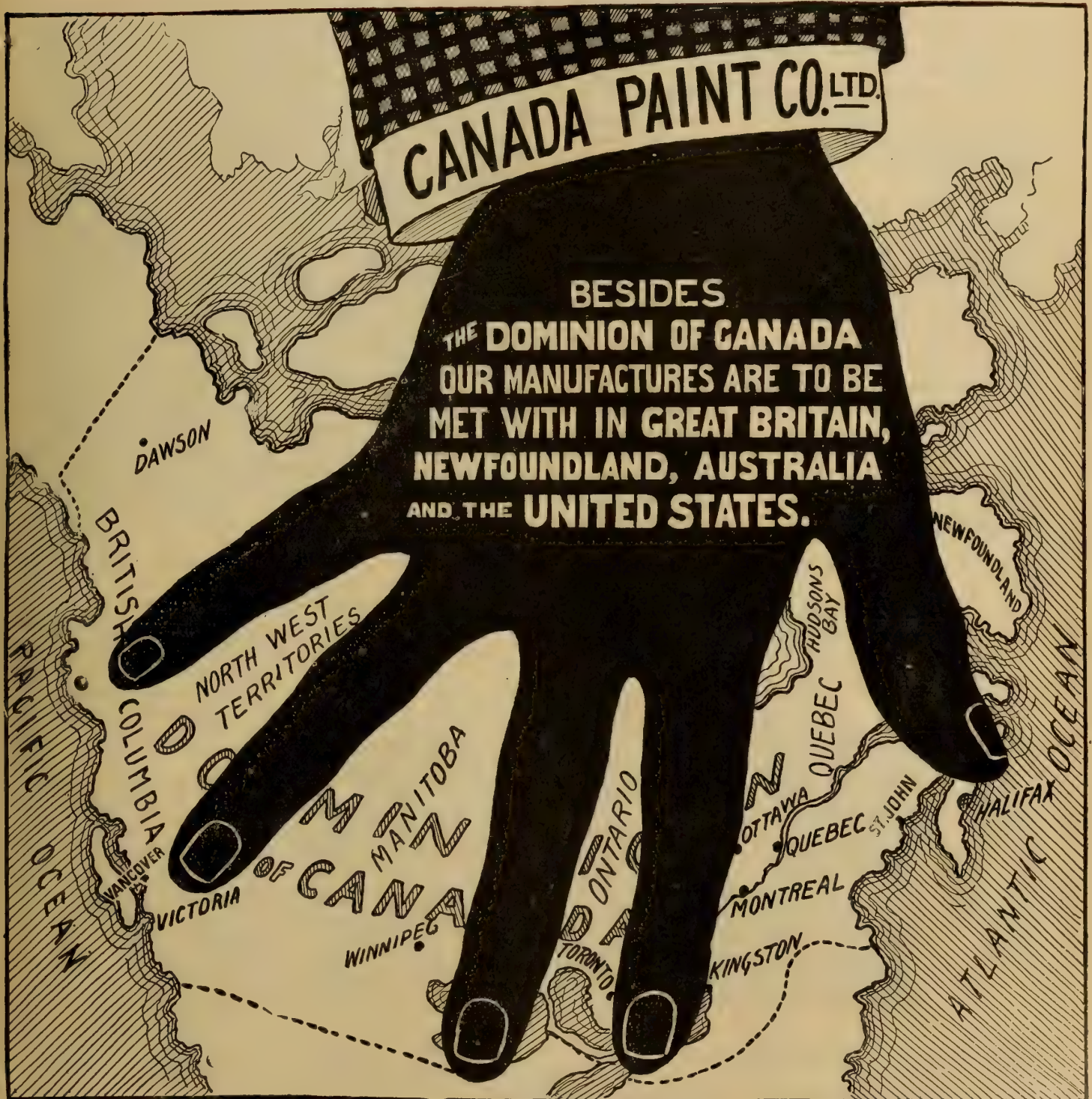
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mer pig in the United States has been about \$10 at the furnace, whereas Swedish charcoal pig iron is worth £5 c.i.f., Swedish malleable iron bars are quoted £9 5s. c.i.f., and hollow steel ingots, such as are used for bicycle-tube making, are quoted at \$120 duty paid into the United States.

But such complicated enterprises as those of Sweden can nowhere be carried out profitably unless the same economical methods are adopted as those applied in Sweden. If they can be duplicated, it is surely in Canada, for Canada, like Sweden, possesses boundless forests, intricate waterways, immense water-power, pure iron ores and sulphur mines.

But, should the fuel or iron ore not be available for work on such a scale as the operations of the Kopparberg Co., there are ores accessible to the Ottawa, in treating which the sawdust and waste lumber of that river might be used. Whether the iron ores of Ontario and Quebec within easy reach of the Ottawa are as abundant as some claim, I cannot, of course, decide, but the analysis published certainly represents ores of such remarkable purity that they compare favorably, not with the best, but with the average of Sweden's and Bessemer ores. In the following table, 1, 2, 3 are examples of the Domnarfoet Bessemer ores; 4, 5, 6, 7 of good Swedish ores of second grade, and 8 to 16 are examples of Canadian ores from Quebec and Ontario:

No.	NAME OF MINE.	Sesquioxide of iron.	Peroxide of iron.	Pretoxide of iron.	Pretoxide of manganese.	Magnesia.	Lime.	Alumina.	Silic acid.	Sulphur.	Carbonic acid.	Iron.	Phosphorus.
1	Johannisbergs grufvan.....	61.57	5.34	5.96	4.68	2.20	0.44	0.60	12.10	53.80	0.003		
2	Bisbergs Stor grufva I.....	64.42	6.13	6.88	4.72	1.62	trace	1.30	0.36	51.42	0.002		
3	II.....	89.64	4.48	0.14	0.78	0.60	0.32	4.46	68.05	0.03			
4	Norbergs parish D: o Lilla Bads	73.75	6.54	0.13	0.94	0.60	1.60	16.20	0.013	58.00	0.008		
5	tugruvan.....	79.25		0.05	0.15	0.50	1.00	18.80	0.009		0.021		
6	Norbergs faltet new Skacelbergs	8.51	trace	0.11	1.30	0.15	13.00	0.076		0.011			
7	grufvan.....	69.05	0.05	0.30	1.65	0.60	23.25	0.021		0.034			
	D: o Old Stora By grufvan.....	71.35	0.15	0.10	2.25	0.50	25.70	0.006		0.003			
	Risbergs faltet speltal.....												
8	Hunts iron & iron												
9	ores, 1861-1869.												
10	Hull Bed ore.....	66.20	17.78		0.45	3.42		10.46	.2180	58.76	.015		
11	"Black ore.....	73.90			1.88		.61	20.27	.085		.027		
12	North Crosby.....	90.14			.84	.82	1.33	5.25	.120	64.90	.007		
13	Belmont.....	72.80			6.46	2.75		14.73		51.41	0.35		
	Madoc.....	89.22						10.42	0.73		0.12		
	McNab.....	84.42			1.04	5.40		7.16	0.65		.030		
14	Harrington, 1873-74—												
	Bristol.....	65.44	14.50					11.45	1.40	58.37			
15	Rhodes & Co.,												
16	A.I. of M.E.												
	XX. 411.												
	Levant.....	63.73						4.466	0.032		0.028		
	Glendower.....	62.32						10.67	0.39		0.01		

Analyses are given of other ores. They indicate ores even lower in phosphorous. The amount of pyrites in these ores seem to be well within the limit of Swedish practices, where, owing to the methods of firing in charcoal hearths, the percentage of S must, nevertheless, be small. This is attained

by roasting. The gas calcining furnace of Westman is largely used.

The Canadian ores represented by the above analysis come nearly up to the standard of Swedish ores from the Norbergs district, Vestmanlands, and are purer than much which is sold as Bessemer ore from Lake Superior, taking the following as examples:

	Fe.	Ph.
Mountain iron	64	.045
Homer.....	64	.055
Tubal.....	62	.065

It is estimated that 700 to 800 tons of vegetable matter go to waste daily at the mills on the Ottawa, or, say, 450 tons of dry wood. If half of this, or, say, 200 tons, could be converted into charcoal, in the Ljunberg kiln, it would yield 55 tons of charcoal and make over 60 tons of pig iron, while the sawdust would make gas enough to convert the pig into steel and to manufacture the steel into specialized forms. This amount of iron may seem insignificant, yet, it is more than one-tenth of Sweden's output.

At present it is costly disposing of this valuable matter as waste, yet, in Sweden, every grain of sawdust, all the bark, and whatever will smoulder is carefully collected and turned into gas. Fish are abundant in rivers which turn half a hundred sawmills. Even if the law permitted of the pollution of the rivers, self-interest would forbid. Attempts have already been made in the

to those now available. The Kopparberg company, for instance, now uses the Ljungberg continuous kiln, in which refuse wood is burnt into charcoal at 33 per cent. less cost than in heaps, and with 22 per cent. higher yield. The company reports that the yearly output per kiln is 200,000 hectoliters (=550,000 bushels) of charcoal. The kiln is charged by means of hoisting and conveying machinery. The work is mechanically discharged into pockets, whence it is conveyed by rope transportation to the top of the blast furnace. The company exhibited at Stockholm, tar, acetate of lime, methelated alcohol, and other bye products of charcoal kiln.

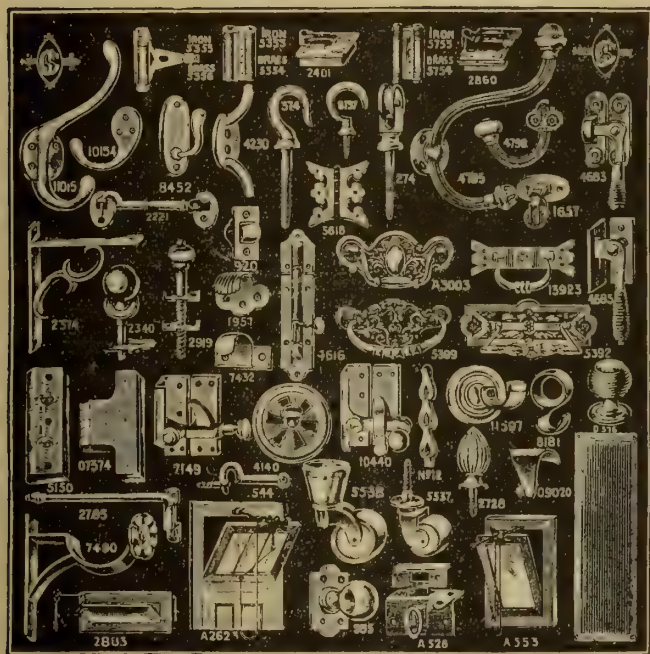
Waste such as sawdust, shavings, bark, etc., too small or unfit for conversion into charcoal, is grasified in producers of peculiar construction. If the charge be sufficiently open to allow the free passage of air, the charge in the producer is 12 feet deep, if compact, as for instance, when sawdust is being burnt, six feet in depth. In the latter case, forced blast is introduced, on a level with the solid hearth, for no grates are necessary, there being clinkers and very little ash. Formerly it was considered necessary to condense the moisture and the tar, before the gas was burnt; but now the ligneous fuel is dried before being thrown into the producer, and the gas, if the producer be no further than 50 feet from the furnace, is burnt as it is made. The introduction of the wood gas producer enables charcoal iron to be made into open hearth steel, and this to be manufactured into articles which require high or accurately controlled heat, and the gas is made out of material whose disposal elsewhere entails cost and serious inconvenience to the lumberers.

If the circumstances in Canada be as supposed the methods pursued in Sweden are certainly well worthy of study by Canadian lumbermen and iron miners. To the combination of the two great industries of lumbering and iron smelting is largely due the prosperous condition of both in Scandinavia. To practise conservative forestry is what every enlightened economist and lumbermen on both sides the line preaches, and what no one practises on a large scale, nor I fear will anyone practise it until obliged by law to do so. It requires no argument to prove, that a perennial blessing is better than an annual one; but before the full benefit of scientific forestry can be achieved a large immediate sacrifice must be made, and afterwards the lumberman would, I suppose, have to be satisfied with a lower average scale of profits. To associate pulp making with sawmilling is doing no violence to either industry, but it would certainly strain the versatility of our

United States to utilize sawmill waste in iron making. The Plattsburg, or Norton furnace, was built in 1877, as an auxiliary to Norton's sawmills, for the treatment of Chateaugay ore, but without much success. The appliances and metallurgical experience were at that date, however, vastly inferior

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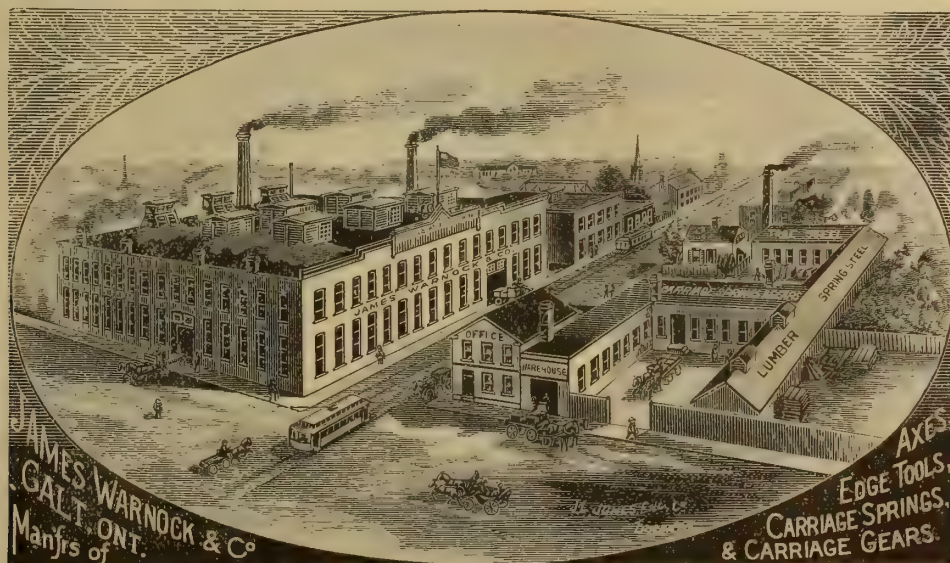
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most enterprising lumber merchants, were they to undertake as an adjunct the delicate task of iron smelting, steel making and tool manufacturing. Such complex industries must be the product of growth. But the first step towards the realization of such a system of exhaustive and economical utilization of nature's resources might be the establishment, if necessary under independent management, of iron and steel works, conveniently situated to the sawmills of the Ottawa, and under contract with the sawmill owners to supply mill waste. The failure of such old enterprises as the Hull furnace, need not deter the promoters of such an enterprise, if they are satisfied of an abundant supply of pure ore; for a revolution in iron and steel making has taken place within the last 25 years. Moreover, charcoal, iron and steel are even rarer products than they were then; for, in 1875, the United States produced 515,700 tons of charcoal pig, whereas the output fell to 255,211 tons in 1897.

The production is never likely to be in excess of the demand. Such iron furnaces and mills need not be on the immense scale of the great coke and coal iron and steel plants. The famous Sandvik works, of Sweden, which supply the United States with the finer bicycle steel for tubing, turn out only 20,000 tons of finished product annually. Another company which exhibited its products in a separate pavilion at Stockholm, the Finspong, makes only 6,000 tons of open hearth steel ingots, 6,000 tons of open hearth steel castings, 600 tons of wrought iron blooms and 2,500 tons of manufactured articles.

Compared with the enormous production of the United States, for example, whose blast furnaces made, in 1898, 11,900,000 tons of pig, the largest stacks touching 700 tons per day, Sweden's output, if measured by quantity, is almost inappreciable. Nevertheless, by adhering to the principle of never sacrificing quality to quantity, her comparatively small contribution of iron and steel to the world's total, owing to its unique excellence and its wonderful properties, maintains Sweden in a prominent position among the metallurgical powers. Her enviable position and bright example are, therefore, worthy of being taken to heart by Canadian miners, metallurgists and lumbermen.

TWENTY YEARS IN THE PAINT AND OIL TRADE.

Among the old and reliable paint firms of Canada none are better or more favorably known than Henderson & Potts, of Halifax, N.S. They have been established for over 20 years, and throughout all that time their goods have always commanded a ready

sale. Mr. Henderson is, himself, a practical man, and all their dry colors are made under the supervision of a practical chemist. They are manufacturers and dealers in all painters' supplies.

Their immense factory at Halifax, N.S., is thoroughly equipped with all modern appliances, and everything is manufactured on the premises. Their tin shop alone employs 15 hands to supply the cans in which their goods are shipped. Their "Anchor" brand of paints are known from Halifax to Vancouver.

Two years ago they opened a branch in Montreal in order to be nearer the great consuming west. This branch is under the management of Mr. Alexander Manson, who has been 25 years connected with the paint industry in Montreal. He was for some years with A. Ramsay & Co. He has had a great deal to do with the success of Henderson & Potts' western agency.

Besides selling their own brands of paints, they have been for 10 years sole Canadian agents for Brandram Bros. & Co., London, England, white lead manufacturers, whose products have taken a foremost place in Great Britain for over a generation, and have long had a steady sale in Canada for first-class work. Henderson & Potts are much pleased with business this year, their orders being more numerous and larger than in 1898. The firm is to be congratulated, both upon its past and upon its prospects for the future.

AN ENGLISH IRON SHINGLER.

The accompanying striking, grotesquely dressed figure is that of a shingler employed in one of the iron mills of Wolverhampton, England. Shingling is the process of expelling from puddled iron scoria and other impurities. Ponderous forging hammers, squeezers, or rollers, are employed in doing this, and the men engaged in running the



AN ENGLISH IRON SHINGLER.

machines are called shinglers, whose boots and lower garments are made of iron, it will be noticed by the accompanying illustration. But the iron shingler, such as the illustration shows, promises ere long to become little more than a memory, although the figure in our illustration appears to be good enough for many a day yet.



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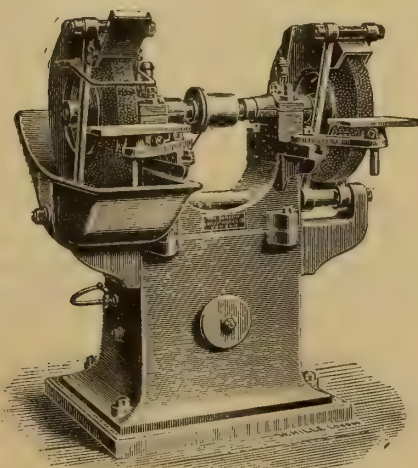
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ACETYLENE GAS: ITS PECULIARITIES AND ADVANTAGES.

By H. F. P.



THE subject of artificial light has been one of the great questions agitating men's minds from time immemorial. The cry has been in all ages, "light, more light," and as they began to get light, their aim was to improve and cheapen it.

The successive improvements in the development of artificial light, mark the different stages of our civilization. To the untutored savage in his hut, moonlight, or it may be the light from the burning log, was sufficient. Then, as men advanced from this savage state, the torch,

THE CANDLE AND THE LAMP

held successive sway. But, as our towns and cities grew in size and our resources began to increase, the demand for something cheaper and better was heard, street lighting became a matter of prime necessity, neither the candle nor lamp was sufficient, and the discovery of coal gas was timely. For a time our wants were supplied, but even this was not satisfactory, and here Science once again came to our rescue, and gave us electricity. Here we have a light that under certain circumstances suits our purposes. Well, as far as our cities are concerned, it is probably as good as any that can be produced.

BUT IT IS EXPENSIVE

and often uncertain. In small villages and detached country houses the coal oil lamp still holds sway. Gas and electricity are too expensive. Once again Science comes to our rescue.

In 1836 acetylene gas was discovered, but was kept a profound secret. It was frequently made in small quantities; but it was not till 1888 that it became a commercial commodity.

In that year Thomas L. Wilson, a Canadian, was making some electrical experiments, and, as luck would have it, his experiments were a failure, and he produced the wrong article, and what he thought at the time was nothing but a piece of rock. This was thrown away. Fortunately, in doing so he threw it in some water, and instantly a large quantity of gas was produced, which, upon being lighted, burned with

A BRIGHT FLAME.

Chemical analysis showed the rock to be

carbide of calcium, and the gas was called acetylene.

As in many another instance, accident was the means of discovering one of our greatest blessings. Ever since then experiments have been carried on with the view of producing carbide in sufficient quantities and at a reasonable cost, and to-day it can be produced at a price that places the cost below that of other gases.

Whilst these experiments were going on others were looking for the best means of using those carbides for illuminating purposes. At first it was thought that by liquefying it and then condensing it in immense steel cylinders under tremendous pressure this could be obtained. This was found, however, too dangerous, and

SEVERAL EXPLOSIONS

for a time frightened the general public and called down the protest of insurance companies. But to-day better means of producing and handling it have been adopted, and we look to see this gas take its proper place in the commercial world, where cheapness, safety and adaptability are prime objects.

We have already in Canada several large factories devoted to the manufacture of generators. There are several in the west doing a good business, and the town of Lachine, has recently granted a bonus of \$25,000 to The Sunlight Gas Co., of Montreal, to establish a large factory there which will employ hundreds of hands.

IT IS SAFE.

Safety to life and property is a strong point which acetylene gas possesses. Pure acetylene gas is non-explosive. Mixed with air in certain proportions, it can be deteriorated, but so can almost any gas. Whilst the range of air admixture through which coal gas may be exploded is slightly smaller than with acetylene, the difference is more than counterbalanced by other considerations. Prof. John H. Long says: "The gas itself is as staple and safe to handle as common illuminating gas."

IT IS ECONOMICAL.

Lighting by the means of acetylene gas is cheaper, as regards the installation of plant, the maintenance of the same, and the cost of the illuminating materials themselves, than light obtained from any other gas. The use of acetylene gas involves no costly system of street mains. There are no costly works to be erected. Even the pipes used in the house are only about half the size of those used for gas, and it can be produced even with carbide at the high

price of \$100 per ton, at about 40c. per 1,000 cubic feet of gas.

Compared with electricity, it is claimed that one cubic foot of acetylene is equal to 16 candle power incandescent lamp per hour, and is thus about

ONE-THIRD THE COST OF ELECTRICITY.

For small country towns, where gas is an impossibility and electric light an expensive luxury, acetylene gas can be used to great advantage. The generators are made in all sizes, from those used to light the cottage to ones of sufficient power for lighting churches, factories, or even the whole village.

ANOTHER GOOD FEATURE

of this gas is that it is always at the disposal of the consumer. Keep your generator charged and you have the gas at all hours of the day or night.

A writer in a recent issue of The British Trade Review speaks of the

PRICE OF THIS GAS

as compared with other illuminants as follows: "One hundred pounds of carbide make 560 cubic feet of gas. A burner of 25 C.P. consumes half a cubic foot per hour; at £20 per ton for carbide, the cost is 40s. per 1,000 cubic feet of gas. This appears a high figure, but the fact has to be taken into consideration that acetylene gas burners consume only about half a cubic foot per hour, as compared with five cubic feet for coal gas, and gives a more brilliant light. Accordingly, 100 cubic feet of acetylene gas will burn as long as 1,000 feet of coal gas, so that it compares with coal gas at 4s. per 1,000 cubic feet, light for light."

When the manufacture of carbide becomes more general, and larger plants bring around the

GENERAL REDUCTION IN PRICE

that is anticipated, the cost of this gas will be greatly reduced. If the experiments in the manufacture of carbide from sawdust prove successful, we may look for a great impetus to the use of this light. The cost of installing a plant in the house cannot be much more than putting in a hot-water furnace.

AN EYE TO BUSINESS.

Old Lady (who has entered merchant's shop in Aberdeen): "Fine mornin' Maister Johnson! Hae ye heard that Saunders' wife's dead?"

Mr. Johnson (astonished): "No; is that so? Weel, weel; Saunders aye hid an e'e tae business."

Old lady (perplexed): "Eh, what's that?"

Mr. Johnson: "Oh, weel, ye see, Saunders is a director in the new cemetery company, an' I suppose he'll be gaun tae gie't a start. It's rael like Saunders!"—Answers.

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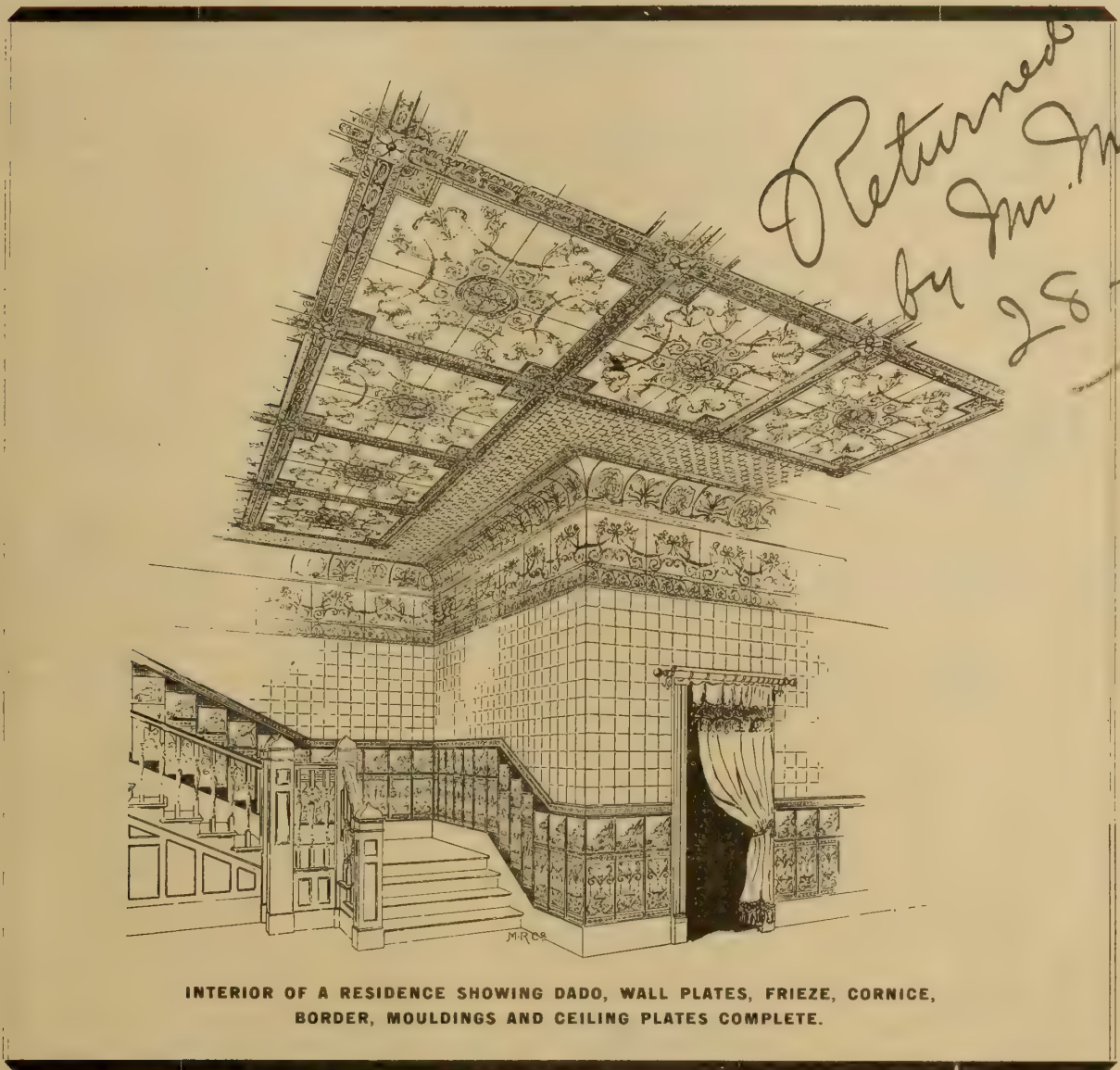
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THE BEARING STRENGTH OF TIMBER.



SOME illustrations of rules for finding the weights that timber of a given size, supported at both ends, will sustain, are given by Prof. Carpenter :

1. If a weight be uniformly distributed from end to end on a horizontal beam, it produces the same effect on a beam as though one-half of the weight were gathered at the centre of

the beam.

Example—A horizontal beam, 16 feet in length, sustains a floor 2 feet each side of it. If the weight of the floor, and the load that may be expected to be put upon it, be taken as 75 pounds per square foot, we should find the total load sustained by the beam to be its length multiplied by the load on each square foot, or $16 \times 4 \times 75 = 4,800$ pounds. This would be equivalent to a centre load of 2,400 pounds.

2. (Converse of 1.) If a beam sustain a certain load at the centre, it will sustain twice as much load provided it be uniformly distributed.

3. The safe load should not exceed one-fourth or one-fifth the breaking load in bridges, or in floor subject to much vibration from moving bodies. In roofs the safe load should not exceed one fourth or one-third the breaking load. These precautions are necessary for two reasons : Timber is injured by a load much below the breaking load, and imperfections in workmanship and material are constantly occurring.

4. The safe load is assumed to be one-fifth the breaking.

To find the safe load that a horizontal pine beam, supported at both ends, will sustain :

Rule.—Multiply the breadth of a beam by the square of its depth, and that product by the number 90 ; divide this result by the length of the beam between the supports, and the quotient will be the number of pounds in the load that the beam will safely carry at the centre. If the load is uniformly distributed it will be twice the safe centre load, and the foregoing result may be doubled to obtain the total distributed load. (See rules 1 and 2.) If any material besides pine is used, instead of the number 90, the numbers in the following table must be used :

White oak	120	Walnut	90
Red or black oak	110	Tamarac	80
White ash	130	Spruce	90
Swamp ash	80	Maple	110
Black ash	60	Hickory	140
White beech	90	Rock elm	70
White cedar or arbor vitae	50	Locust	120
		White pine	90

load of a pine beam, 4x6 inches, supported at two places, and 12 feet long between the supports ?

a. If the depth be 6 inches and the breadth 4 inches, the centre load $= 4 \times 36 \times 90$ divided by $12 = 1,080$ pounds.

b. If the depth be 4 inches and the breadth 6 inches, the centre load is $6 \times 16 \times 90$ divided by $12 = 720$ pounds. From these examples it will be seen to be always most economical to set a horizontal beam on its edge, or place it so that the greatest dimension shall correspond to its depth.

5. To find the weight that an inclined beam (a rafter), will safely bear at the centre distance between supports.

Rule—Find the centre weight that a beam of length equal to the horizontal span or spread of the inclined beam will safely sustain, by the 4th rule ; divide this result by the horizontal span of the inclined beam, and multiply it by the length of the inclined beam.

Example—What will a pine rafter 20 feet long, with 12 feet rise and horizontal span of 16 feet, if 2x4 inches, sustain safely at centre when there is supposed to be no support at its centre ? If horizontal and 16 feet long, the safe centre weight $= 2 \times 16 \times 90$ divided by 16, or 180 pounds, dividing this result by 16 and multiplying by 20, the safe centre weight is 220 pounds. This would correspond to a uniformly distributed load of 440 pounds. If this rafter be supposed to carry 2 square feet for each foot in length, the load would be 104 pounds to each square foot.

Note—A rafter of these dimensions would need a support at the centre ; in that case its horizontal span would be 8 feet instead of 16. The result would be a safe centre load of 440 pounds, or a safe distributed load of 880 pounds—but this is distributed over a rafter 10 feet long instead of 20, so that on the same supposition as before the safe load becomes 41.6 pounds per square foot—a safe load for any roof.

Remarks—This rule, although sufficiently exact for ordinary purposes, and safe for ordinary roofs when the factor of safety (5) is used, must be replaced by more exact and complicated rules when very exact results are required. This is safe for all farm buildings.

6. When the dimensions of a horizontal beam that will safely carry a given load are wanted, the following rule must be used : The product of the breadth into the square of the depth equals the depth at the centre divided by 90 for pine, or by the numbers given under the 4th rule for any other material. By assuming the depth the breadth can be found.

Example—What sized pine beam, 16 feet long, will safely support 1,000 lb. at its centre ? 1,000 divided by 90 equals 11.1 —equals the breadth multiplied by the square of the depth.

If we assume the depth to be 3 inches, its square is 9 and the depth 11.1, divided by 9 = 1.3. Hence the answer is a piece 1.3×3 . When the load is distributed over a number of square feet, the centre load must first be found by multiplying by the number of feet and dividing by 2.

7. If the beam is inclined, divide the centre load by the length of the beam. Multiply the quotient by the horizontal space, and proceed as in the 6th.

8. The amount an upright beam will safely carry when subjected to a pulling strain, can be found by multiplying the number of square inches of its cross section by the strength of 1 square inch.

The following table gives the safe strength of different woods in pounds per square inch:

Ash	3,200	Pine	2,000
Elm	1,200	Walnut	1,000
Hickory	2,200	Poplar	1,400
Maple	2,000		

9. The amount an upright post, loaded at the upper end, will sustain, can be found approximately in the same way as the tensile load ; the amount per square inch should be taken about four-fifths that given in rule 8. This is an approximate rule that cannot be relied on in cases where very accurate results are required.

These rules give accurate results, with the exception of rules 5 and 9. The results given by rule 5 are safe, and do not differ much from the true results. Those given by rule 9, for the size of posts, are very nearly correct when the posts are of moderate length.

BALD MEN AND THE KLONDYKE.

Reindeer, Arctic hares, sea-otters, and musk oxen—all the creatures that inhabit the Arctic world—are hairy as possible, and covered with thick, warm fur.

And the colder it gets the thicker their hair becomes. Arguing on these lines, physicians have always said that the Arctic regions ought to be the best place for bald-headed men to recover their hair. An Englishman, a native of Manchester, who has just returned from the Yukon goldfields, bears out this statement.

"Before I went," he says, "I had the baldest, shiniest pate you ever saw. But just look at me now ! The intense cold, you see, kills all germs and microbes, and stimulates the hair-cells of the scalp. There is certainly something about the intense cold that makes the hair on man and beast flourish mightily. Such a thing as falling hair is absolutely unknown in all that part of the country."—Answers.

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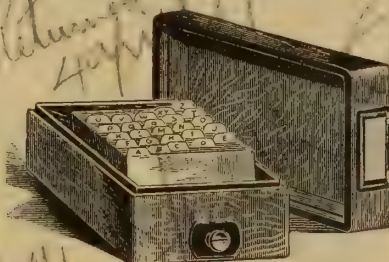
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TWO MANUFACTURERS' AGENTS.

MONTREAL is a commercial city. Her trade extends throughout the whole of Canada, and embraces every kind of merchandise known to man. The manufacturers of Great Britain, France, Germany and United States, as well as other countries, the raw materials so extensively used in our own factories, the many products that go to materially increase our comforts, as well as the products of our own factories, all are represented there, and through the manufacturers' agent are once again sent coursing through the different chapels of trade, to the remotest part of our country, enriching our merchants, building up our cities, and giving employment to thousands of our artisans, besides placing the comforts and luxuries of every clime within reach of all.

Many of Montreal's most prominent men and firms have made name and fame in this line of business. There are firms there who for 60 years have thus been supplying our wants with the products of other lands. Others cannot claim so long a period of service, but all, no matter for how many years they have been in business, are doing their share in building up our "Commercial Metropolis," and putting her in the forefront of American cities as a distributing centre for the continent.

Among the more important articles dealt in through agents, are iron and steel and their manufactures. Whilst space will not permit of all those engaged in this line of work being spoken of, a few may be mentioned. A. C. Leslie & Co. are among the

largest dealers in heavy metals in Montreal. Their business includes a long list of heavy hardware, among the principal being bar iron, tool steel, wire, galvanized iron, tin-plates, and Canada plates.

They are an old and reliable firm, with a large connection throughout Canada, and do a business of many thousand dollars' worth annually, besides representing several of the largest manufacturers in Great Britain. They are also iron and steel merchants, and, as such, do a large business on their own account.

Another agent who is fast building up a lucrative business is Alexander Gibb, agent for Gilbertson's "Comet" brand of galvanized sheets and other goods. Mr. Gibb is a Scotchman, who came to Canada as a young man, and secured a position with Crathern & Caverhill, which he held for 15 years. Two years ago, he decided to go into business for himself as a broker and manufacturers' agent, and has succeeded in building up a good connection with the leading wholesale houses in Canada. Besides the several agencies represented in his advertisement in another part of this paper, he also represents several American and Canadian firms. He also does a large business as a broker.

The cutlery business is another branch of the trade that is also strongly represented in Montreal, English and German houses being represented there, and all are doing a large business.

It seems to be the tendency of foreign houses to more and more do their Canadian business through this medium. It can be

done much more cheaply and satisfactorily than by sending out a representative once or twice a year. Most Canadian agents have a good connection with the trade, and can well represent several houses in different branches of the same business.

MURRAY'S INTEREST TABLES.

Murray's Interest Tables, which were recently issued, cannot fail to be a great boon to bankers, loan corporations, brokers, private money lenders, accountants, merchants, and, in fact, to all who have to do largely with funds at interest. Upon all sums from \$1 to \$10,000, at all rates, in a half per cent. scale between $2\frac{1}{2}$ and 8 per cent, and for all periods from one day to 365 days, it gives the interest. The system of the work is remarkable for its accuracy and simplicity. To ascertain the interest on a sum for any given number of days the inquirer has merely to turn to the page of the same number. There, in heavy black type, running in two columns down the page, is the whole series of sums between \$100 and \$10,000, while in parallel columns, under the successive percentage headings, is given, in lighter type, the interest. The author spent over ten years making the computations, and its efficacy is demonstrated by the fact that it was used in the Master's office of the Supreme Court, Toronto, to settle an interest case.

It is not generally known that one-tenth of the whole human race is composed of negroes, there being more than 450,000,000 on the face of the earth.



HIS LOVE WIDE AWAKE.

CHAIRMAN (of the Blackville club, to Mr. Johnson, who has grown suddenly saffron)—"Mistah Johnson, why didn' yo' jine in wif us in singin dat beautiful song. 'Cum whah mah luv lies dreamin'?"

MR. JOHNSON (moodily)—"'Cause it's half-pas' one, an' I's dreamin' whedder I'll git hit wif a flat-iron or on'y a rollin'-pin when I get home. Mah wife ain' no dreamer; she ain't."

TRADE



"BUTLER"



MARKS.

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Butler's Famous Sheffield Cutlery & Electro-Plate.

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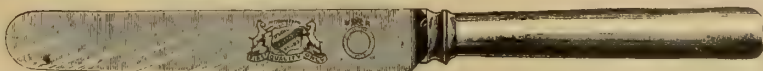
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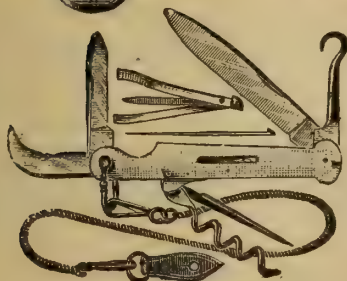
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to Fork.

OLD ENGLISH



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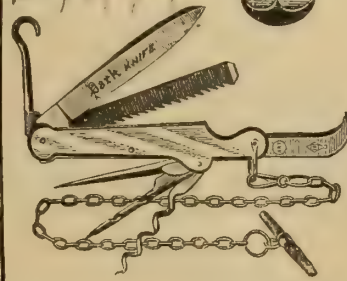
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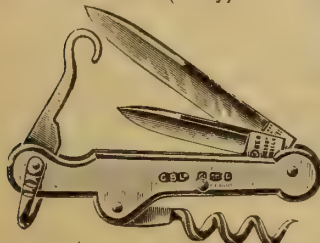
Trinity Works, SHEFFIELD, England.



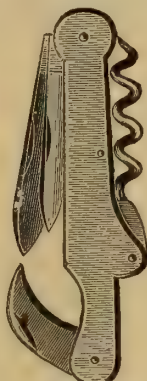
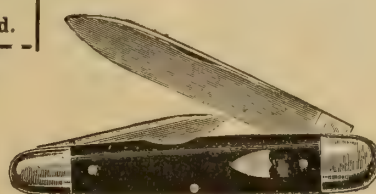
The "Park" (Best Nickel Silver).



No. 120 (Ivory).



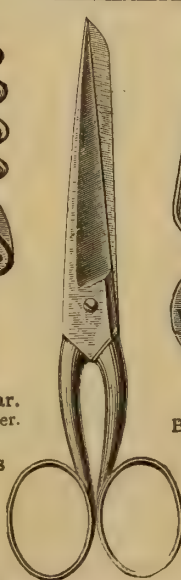
No. 1847 (Best Nickel Silver).

No. 757. Spear.
Best Nickel Silver.No. 1416.
Best Nickel Silver.

No. 4086 (Black).



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'KEEN' as is this razor's edge invisible."
—Shakespeare.N.B.—Those only genuine showing Shake-
spear's head on blade. (Regd.)Also Scissors
in Cases3, 4, and 6
Pairs.

PRICES ON APPLICATION.

THOUSANDS OF OTHER PATTERNS IN STOCK.

Best STROP for all RAZORS.
Real Calf Facings (Registered).**A. H. SYMONDS,**Representative for Canada,
has a full line of samples
at**71 Yonge Street, Toronto.**

A FRIEND IN NEED IS A FRIEND INDEED.

By W. L. E.



AH! You may preach from now till doomsday, and you'll not make me change my opinion. I'll tell you plainly, I do not believe in life insurance. Excuse my abruptness, old fellow, but, as you know, I have a habit of speaking strongly when I give expression to matters upon which I have pronounced views."

The speaker was Gerrard Mills, who held a position in a well-known wholesale hardware house, and his remarks were addressed to his friend, Jack Merriton.

The two friends were seated in Gerrard Mills' room, the one occupying an easy chair and the other the edge of the bed. Merriton sat in the chair. He had evidently only recently entered the room, for he was still removing his gloves, although leisurely, after the fashion of a man who has something upon his mind which he desires to unburden. In the present instance, at any rate, there was no mistaking its import. Merriton had something which he desired to consult Mills about, and it was his first attempt at doing so that induced the somewhat abrupt remarks from his friend.

The particular subject which Merriton had on his mind was life insurance. He was not a life insurance agent. By profession he was a salesman. But he was none the less an apostle of life insurance, not from any ulterior motive, for, although he had been instrumental in inducing many of his acquaintances to insure their lives, yet not one cent had he gained by doing so. In a word, Merriton was an advocate of life insurance for the same reason that some people are temperance advocates, philanthropists, etc.—simply from an innate desire that mankind in general, and his friends in particular, should do those things which redound to their advantage. He was considered a crank on the question by some, but enthusiasts on all subjects and in all ages have been so considered.

His views and those of his friend, Gerrard Mills, were at the antipodes in the matter of insurance. The latter was what might be termed a sceptic towards the doctrine of life insurance. Many attempts had Merriton made to convince his friend of the unsoundness of his position. But each and every attempt had proved a failure. For sometime he had not importuned him at all. Mills, however, was, in a few weeks, to be married, and Merriton had determined to

once more try his hand upon his stubborn friend. It was in pursuance of this decision that we find him at the moment in his friend's room.

There was no mistaking the room for the abode of a bachelor. An oblong table occupied the centre, its only covering being a litter of books, newspapers, etc. A red baize couch, somewhat the worse for wear, occupied a position near the window, while the bed abutted from a nearby corner. In a niche between the chimney and the wall was a bookcase and secretary, in which books of various sizes and descriptions were thrust without much attempt at order. On the mantel was a tobacco vase, pipes, photos of the "boys" and various noted actresses, while the wall overhead was adorned with a couple of foils, a mask and a set of boxing gloves. The floor was covered with a warm-looking carpet, while scattered promiscuously about the room were half a dozen chairs, noted more for their easy and inviting character than for their handsome appearance. A fire burned brightly in the grate, and the room had a comfortable, if not altogether well-arranged appearance.

"I know you do not believe in life insurance," rejoined Merriton, as he threw hat, gloves and cane on the table in a bunch. "And I am equally well aware that your views are pronounced. But I am going to make one more appeal to you. On the 15th of next month you are to be married. Now, for goodness sake, listen to reason, and for your intended wife's sake insure your life."

"Now, for one moment before you go any further," interposed Mills, "I thank you, old fellow, for the interest you take in me and my intended wife, but I shall not insure my life. Don't think, however, that I am unconcerned regarding the duty that devolves upon me of providing something for my wife in case I should die before her. Neither am I as great a disbeliever in insurance as you perhaps imagine. Here is my situation: I believe that the man whose position is such that he cannot save more than, say, \$50 per year, should insure his life. I'll go this far, and say that he cannot invest it to better advantage. If he goes into a good company his money is as safe as if it were in the Bank of England. But with me it is different. I am earning a salary of \$1,500, and out of that I shall be able to save \$500 a year."

"But have you saved \$500 a year since your income became \$1,500?"

"Well, no," replied Mills, as he slowly twirled his moustache. "But you know I'll

be able to do so after I am married, because then I shall settle down. I have, however, saved \$1,000 in five years, or at the rate of \$200 a year. But granted that I save no more than \$200 a year in the future, does it not follow that the best thing for me to do is to insure my own life? In other words, bank my money instead of investing it in life insurance? Even at \$200 per annum, in five years I can save \$1,000, but I shall do better than that. At the end of five years I shall have saved \$2,000 at anyrate, not counting interest, particularly as I soon expect to get an increase in salary."

"Granted for the sake of argument that your contention is correct," interposed Merriton, "if you are assured of health and life; if you are assured that you will always occupy a position as good or better than the one you are now in. But can you be assured of these things?"

"Well, I have an unusually healthy and robust constitution, and my forefathers for a couple of generations back have been long-lived. Then, my situation is mine as long as I choose to keep it.

"Now, I need not tell you how uncertain life is. We are sure the sun will cross the heavens to-morrow, but you are not sure that you will cross this threshold alive to-morrow, healthy and all as you no doubt are. Well, if you are not certain of a day, how can you be that your health and situation are assured for a number of years. No, Gerrard, old fellow, life is not to be depended upon for even five minutes, let alone five years. But I'll tell you what is: Life insurance is. You may live 50 years, and again you may not live 50 days. A good insurance company is likely to last as long as the hills. While, therefore, you and I cannot depend upon possessing \$50 a year hence, this we can be assured of: An insurance policy taken out to-day assures to our loved ones a nice little sum, whether we die this year, next year, or 50 years hence. And I firmly believe that he who does not insure his life is not doing his duty towards those who are dependent upon him. I know I could not die happy if I thought I had made no provision for those who are dependent upon me."

"Neither could I," interposed Mills. "The only difference between you and me is in methods. You hold that the better way is to insure your life with a regular company. I, on the other hand, think that the better way to provide for those dependent upon me is to save my money: Act as my own insurer, if you will."

"Oh, well,

'Convince a man against his will,
He's of the same opinion still'

I suppose," murmured his friend as he relinquished his task, and turned the subject

WRITE FOR CATALOGUE

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Lacrosse Goods	Flags	Wheelbarrows
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and to run 650 feet to the lb.

JOHN BOWMAN HARDWARE & COAL CO.

❁ London, Ontario. ❁

Headquarters for the celebrated Sewall & Day brands of
BINDER TWINE.

Their twines are unequalled.



The finest on the market.

of discussion to Gerrard Mills' approaching marriage.

Three week's later the wedding took place, and the ceremony which made Gerrard Mills and Mable Winters man and wife was performed in St. James' Cathedral, Toronto.

* * * * *

Nearly three years had passed since the wedding. The Mills home had two Gerrards, and Gerrard, junior, was just essaying to toddle. But the light that this little toddler had brought into the home was just now overshadowed by a cloud in the household. The little fellow's father was seriously ill with typhoid fever, which the attendant physician feared would terminate fatally.

"You see," said the kindly physician one day to the anxious inquiry of Jack Merriton, "Mills has an unusually strong constitution; and like most men who boast of their strong constitutions, put off calling a physician longer than he should have. He has a very severe attack, and I fear the result."

A few days later Merriton was suddenly called to the bedside of his old friend. The weeping wife and saddened faces of friends made him fear that the worst had happened. Quickly he made his way to the sick room. The doctor and nurse occupied positions on either side of the bed, on which the patient, worn and wasted, lay.

"He won't last much longer, I fear," said the doctor, in reply to Merriton's inquiring look.

Just then, the sick man opened his eyes, and, with a smile of recognition, feebly stretched out his hand towards his friend.

"Well, Jack, old boy," he feebly gasped, "It seems I've got to go. Oh, I wish,

when I had opportunity, I had only made preparation for——"

"Oh, you're all right," interjected Jack. "You've lived a pretty good life. You needn't be afraid of——"

Merriton intended to have said "the hereafter," but his friend, divining what he was about to say, interrupted with the remark:

"I don't mean that. I mean if I had only made preparation, by insuring my life, for the care of my family. But I didn't. And now——"

"And now you need not have any concern upon that point, either."

"No concern?" exclaimed the dying man, arousing himself. "No concern? Do you think I am not human?"

"Yes, I repeat, you need have no concern. And I'll tell you why. Do you not remember that, about a year ago, you and I had a dispute as to which was the best subject for life insurance.

"Yes," replied the sick man.

"Well, you remember that I suggested that we call in Dr. Beatty to make the examination?"

"I do."

"You also remember that he brought with him and filled out the regular blanks used in the medical examination of applicants for insurance, Dr. Beatty declaring, in answer to a question of yours, that it was necessary to do this in order that the papers might be submitted to another physician in case either of us disputed his decision. Well, that was all the result of a plot conceived by myself and carried out by the aid of your wife and Dr. Beatty. You were really being examined for a five thousand dollar policy in the C——Life Assurance Company."

"Is that so?" feebly asked the sick man.

"It is so," replied his friend, "and the premiums have been paid by your wife."

"Then I die with a great load lifted from my mind," said the poor fellow almost inaudibly.

A TWELVE-YEAR-OLD HARDWARE FIRM.

The hardware trade of Montreal is, and always has been, one of its most prominent commercial enterprises. To the many large fortunes accumulated through this channel may be traced several other of the leading industries of this, our metropolitan city. Several of the palatial residences that adorn her streets, together with many of the industries in other parts of our country, owe their origin to this line of business. Montreal is the distributing centre for Canada, and the products of her warehouses are met with from Halifax to Vancouver.

Some of her hardware firms can look back over long years of prosperity. The management has been handed down from one to another. Men having grown old in the service have retired to enjoy their well-earned fortunes, and handed over their cares to younger ones, and still the business grew and prospered, ever widening with our growing country, until, to-day, it stands at the head of our industries.

Among the younger firms who have built up a large and prosperous business are Lewis Bros. & Co., St. Sulpice street. This firm commenced business about 12 years ago in a small store on Craig street, but it only required a short time to show them that their premises were too small for their growing business, and they moved to 453 St. Paul street, where they had much more room. Here they prospered and grew, and, at the end of two years, they bought out the large stock of Wm. Darling & Co. and moved to their present premises. They now occupy the whole of this building, containing seven flats, and every available foot of space is required to store their large and well-assorted stock.

Their trade extends from Halifax to Vancouver, and gives employment to a large staff, requiring ten travelers to look after their outside business. Besides carrying a full line of general hardware, they are general agents for the Dominion for several large foreign houses, among whom may be mentioned Henry Disston & Sons, saws and files; Hurd's celebrated axes; The S.S. Smokeless Powder Co., and special agents for Sewall & Day, cordage manufacturers, Boston, Mass.

In speaking of the prospects for the coming season, they say the outlook is bright indeed, and their business much ahead of previous years.

The Messrs. Lewis are both hard workers and thorough hardwaremen. It is this and their business integrity and sagacity that has enabled them to build up so large and prosperous a business.



A GLIMPSE OF OLD ENGLAND.

ENORMOUS STRIDES



THE SHERWIN-WILLIAMS CO.

have made enormous strides along the highway of progress. They have come to the front with leaps and bounds, they have come to stay. This Company has achieved greater success in shorter time than any concern in the history of the paint business. They have grown from the start rapidly. Their factories, warehouses, offices, and places of business are to be found in the principal centres of this great continent. Their products and their house enjoy the highest reputation gained by the uniformly good quality of their goods and their fair and liberal business methods. Every dealer who handles

THE SHERWIN-WILLIAMS PAINTS

shares in their prosperity. They help the dealer increase his trade by making the sale for their goods; they force their paints into use by advertising and other good business methods. Write for particulars.



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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE WEAKNESS OF COMBINATIONS

THE object of trusts, consolidations and combinations of various kinds is the regulation of prices.

It does not necessarily mean for the regulation of prices in order that large profits may accrue to those who are parties to them. On the contrary, and especially in these latter days, the aim is frequently to secure merely a living profit. But, whether it be large or small profits that are sought, the chief object is clearly the regulation of prices.

Naturally, the need for such organizations is most felt when the supply exceeds the demand, and when prices are, in consequence, tending downward, but the experience of the past few years has shown that when they are most needed they are to be the least depended upon to fulfil their mission.

It is when times are good, and values are appreciating that consolidations and trusts increase, not when the opposite conditions obtain. When times are bad they decrease.

The trouble is that when trade is dull every person who is a party to a combination or trust thinks he can get a little more business, if he were only to shade the price a little. And in a moment of weakness he shades prices. When the fact becomes

known, others do the same thing, until at last the agreement as to prices is honored more in the breach than in the observance.

Experiences of this kind would be less frequent if parties to an agreement had more confidence in each other.

The strength of a trust or combination is in proportion to the faith those composing it have in each other. And it is because this is weak and not strong that agreements as to the maintenance of prices are, as a rule, found wanting when they are most needed.

CLERKS AS PARTNERS.

A GREAT many men become competitors of their employers because the latter do not hold out any inducement for capable and ambitious young men in their employ to be anything else.

Every young man who embarks upon a business career should aim to be a merchant some day.

All clerks will not become merchants, but all clerks who aim to be such, and who year in and year out keep their eye on the goal and patiently plod toward it will ultimately attain their object.

There are in most stores, among the clerks, material from which successful merchants are made. There are others, who, while they may aim to go into business for themselves some day, are too effete to ever work hard for it, and, even if they did by some strange change eventually possess a store of their own, would not be aggressive enough to prove dangerous competitors.

It seems to us that the policy every wise merchant should pursue is to hold out the possibility of a partnership to the young man in his employ whose qualifications warrant such a consummation.

Once you have decided to do this, take him into your confidence. Counsel him to save money and to master the details of the business. Give him a practical evidence of your sincerity by allowing him, as a start, a small percentage on the sales he makes.

If he is the right kind of a young man, and the proposition should be made to no other, it will stimulate his energy to the obvious advantage of the business.

The promotion of a capable clerk to a partnership is not only a good thing for the business, but it is also a just reward for faithful services.

GOLD PRODUCTION IN CANADA.

Canada now stands easily fifth among the gold-producing nations of the world, the report of the Geographical Survey valuing the output of 1898 at \$13,700,000.

The Transvaal stands first with an output of \$85,400,000. The United States are second with \$64,300,000, Australia is third with \$61,480,763, and Russia fourth with \$25,000,000.

Canada's increase over the preceding year is over 100 per cent., and is, of course, largely due to the output of \$10,000,000 in the Yukon.

Gold production in Canada the current year will certainly be larger than it was even the preceding year, for there are more people in the Yukon, and in the Kootenay district, with the improved smelting and railway facilities, not to mention other favorable conditions, the output is certain to be greatly augmented.

The output of gold in Canada now exceeds that of any other metal. Formerly, coal occupied the first place, and, although the latter has now given place to the yellow metal, it is gratifying to know that it is not because of any decrease on its part, the output of coal in the Dominion last year being valued at \$8,227,958, an increase of nearly \$1,000,000 compared with 1897.

In value, gold was 36.28 per cent. of the total output of all metals. In 1897, it was 21.50 per cent.

If you do not get the pendulum swinging in the right direction when you begin business, the sheriff is likely to do the final winding up, not to make the concern go, but to officially make it stop.

SHARPENING A KNIFE FOR FRAUDS.

Being a name to conjure by, the word "Sheffield" has also become a name to defraud by.

Time and again dishonest manufacturers have used the name of well-known manufacturers of Sheffield, only, in many instances, to be eventually compelled by the courts to desist. Others again, have contented themselves with using the word "Sheffield," and now the leading cutlery houses of that city are forming a defence fund for prosecuting foreign manufacturers who thus stamp their goods.

It is to be hoped their efforts will prove successful.

WILL PRICES BE MAINTAINED?

IN view of the extraordinary advances which have taken place in metals and staple lines of hardware, during the last few months, the question naturally arises: Will they be maintained?

No doubt, the altitude of prices in certain lines has been reached by the arbitrary power possessed by the iron and steel consolidations, whose development in the United States is no less extraordinary than the appreciation in values. But, back of these consolidations is an influence, both more natural and more potent than that which consolidations can exercise, namely, the law of supply and demand.

During the years of depression, recently passed, the purchasing power of the railroads, of the manufacturers, of the farmers, and of the householders was reduced to a minimum.

Now, all this is changed. Good times are here, and the railroads are able to put their improved rolling stock and roadbed in proper condition, the farmers are erecting new buildings and repairing old ones, the manufacturers are putting in newer and improved plants, and the householders are putting their homes in order.

It is this demand which is primarily the result of the upward movement in metal and hardware prices. This advance has been the most marked in the United States, but advices from Great Britain and the European Continent show that there is an appreciation in values there which is by no means insignificant.

On this continent, pig iron is over \$2 per ton higher than it was a month ago, and \$4 to \$5 per ton above the figures ruling the same time last year.

Steel billets are, in Pittsburg, quoted at over \$10 above the figures ruling a year ago, and \$6.50 dearer than the middle of last month.

Wire rods are \$9 above the figures of March, 1898, and the great wire and steel consolidation is complete master of the situation, for, not only does it control all the wire rod mills in the United States except one, but is actually a buyer itself, its own supply not being equal to its requirements.

Steel rails are \$6 higher than a month ago, and \$8.50 than in March, 1898.

Wire nails, in Pittsburg, are 60c. dearer than a year ago, and 40c. dearer than a month ago, while cut nails show an appreciation of 40c. and 15c. respectively.

Compared with a year ago, copper is about \$5 per ton dearer, spelter \$2, lead 75c., tin \$9.55, antimony \$2.50, and nickel \$5 per ton dearer.

One surprising feature of the situation in the United States is that not only are stocks of pig iron gradually being reduced, but the production has since November last been gradually falling off. Stocks were, on March 1, over 215,000 tons less than on the same date in 1898.

In Great Britain much the same condition of affairs exists, and the new furnaces, which are being started there, are looked upon as a blessing. In finished iron and steel the surplus there is also small.

Briefly summed up, the situation appears to be this: In both Great Britain and the United States the demand for iron and iron products exceeds the supply. As long as this condition of affairs exists there is not much likelihood of any reduction in prices, to say nothing of the influence of the consolidations and combinations, which, for the time being at any rate, are powerful enough to assist the market in its natural upward tendency.

A BIG CONTRACT.

The contract for supplying the Montreal Harbor Commissioners with cordage, nails, spikes, and other supplies of similar material during the coming season was awarded this week to Caverhill, Learmont & Co.

The exact quantity of goods is not, of course, specified as the commissioners order the goods as they are required, but in the aggregate it will involve a large quantity of material.

THE WIRE NAIL SITUATION.

Wire nails were advanced another 15c. per keg in the United States last week, and the price in carload lots f.o.b. Pittsburg, is now \$2.15 per keg, or 60c. per keg higher than a year ago, and 40c. higher than five weeks ago.

In Canada there has been no further

change in quotations, but there is a decidedly stronger feeling, for wire, as well as wire nails, advanced 15c. last week across the border, and just as we go to press quotations on wire have been received here which indicate that a further appreciation has taken place in wire.

At to-day's prices in the United States, it would cost \$2.80 to lay down nails here from Pittsburg, but jobbers are still quoting \$2.55 Toronto and \$2.45 to \$2.55 Montreal.

BRITAIN INQUIRING FOR CANADIAN BOLTS.

During the last year or two, Great Britain has imported quite a quantity of iron bolts from the United States, and, recently, some of the manufacturers in Canada have received inquiries for machine and carriage bolts. The inquiry received by one concern was for a large quantity.

As far as can be learned, however, no business has been done, and chiefly for the reason that the works of the different concerns in Canada are overtaxed in supplying the home demand.

It is to be ardently hoped that the Canadian bolt-makers will make an effort to secure a share of this export trade to Great Britain, and particularly in view of the unsolicited inquiries.

Of course, their plants were not put in with a view to doing an export trade, and for the British trade it would be necessary to put the bolts up in gross and half gross packages, instead of in 50's and 100's for the home market. But these are not sufficiently strong to be considered as obstacles.

The bolt manufacturers of the United States, who are catering for the British trade, have been cutting prices pretty sharply. A United States consul at one of the commercial centres declared in a recent report that the reductions being made were much larger than necessary, and, as an example, he showed that some of the manufacturers on this side of the Atlantic had cut the price of bolts £4 per ton more than required in order to secure the business.

With business in the United States as brisk as it is, there is, of course, not now the same disposition to cut prices, which naturally makes it easier for Canada to get a share of the British trade in the particular line mentioned.

A YEAR OF PIG IRON PRODUCTION IN CANADA.

THE paper on "Iron Production in Three Countries," from the pen of Mr. George E. Drummond, shows that the production of pig iron in Canada in 1898, was nearly 76,000 tons. This is 18,000 tons more than in 1897. Twenty-three years ago only 4,000 tons of pig iron were produced in Canada.

Measured by the 11,000,000 tons produced in the United States, and the 8,000,000 tons in Great Britain, 76,000 tons is but a small thing, indeed. And it is small, being less than three-quarters of one per cent. that of the former country, and less than one per cent. that of the latter. But it is encouraging, for it is not only 18,000 tons larger than in 1897, but is the largest on record.

It is over 230 years since the discovery of iron ore in Canada was first reported, and it is getting on for 150 years since the first pig iron was turned out.

Since then, the industry has been toddling along, now falling and then picking itself up again. But now, after all these years, it is unquestionably well upon its feet, and we may now confidently look for a steady improvement from this out.

The 76,000 tons produced last year were the product of three concerns, namely, The Hamilton Blast Furnace Co., Limited, The Nova Scotia Steel Co., Limited, and The Canada Iron Furnace Co., Limited. Being closed down part of the year for the purpose of overhauling the plant, the product of The Canada Iron Furnace Co. was only 6,040 tons. The Hamilton furnace contributed 48,253 tons, and The Nova Scotia Steel Co. 21,627 tons. The Londonderry Iron Co. is in liquidation. Since the year opened, a charcoal furnace has begun operations in Deseronto, Ont. The Canada Iron Furnace Co., Limited, is projecting another of the same character at Midland, Ont., and also, last week, letters patent were secured from the Ontario Government incorporating a company for the purpose. A more ambitious scheme still is that projected by a number of Canadian and United States capitalists, headed by Mr. Whitney, of The Dominion Coal Co., which has for its object the establishment of a four-furnace coke iron plant at Sydney, Cape Breton.

Newfoundland ore will be smelted, and the coke will be produced from Nova Scotia coal.

Many parts of Canada are undoubtedly rich in iron ore, in Nova Scotia and British Columbia there are inexhaustible supplies of coal for coke, and in all parts of the country, where iron is found, there is an abundance of wood for charcoal.

In addition to the natural aids to the establishment of an iron industry in Canada, there is the Governmental and Municipal assistance, the former in the way of tariff and bounty, and the latter by bonus, etc.

The protection to pig iron under the tariff is \$2.50 per ton, and, besides this, the Dominion Government gives a bounty of \$3 per ton on the proportion of pig iron manufactured from Canadian ore, and \$2 on the proportion produced from foreign ore. In addition, a bounty of \$1 per ton is given by the Ontario Legislature on pig iron produced within the Province, but the sum payable in one year is not to exceed \$25,000. There are now two blast furnaces in Ontario, the one in Hamilton, which began operation in 1896, and the one at Deseronto, which started up a couple of months ago. The projected one at Midland will make a third.

ADVANCE IN RIVETS AND BURRS.

An advance in rivets and burrs, the change taking place March 20, is announced.

The discount on steel carriage, section, wagon box and black rivets is now 60 per cent. instead of 65; on Norway iron rivets 55, instead of 60 per cent., and on black and tinned rivets 60 per cent., instead of 60 and 5 to 65 per cent. On burrs the discount is 50 and 5 per cent., instead of 5 per cent.

The advance is 14 per cent. on rivets and 5 per cent. on burrs.

KEEP "HARDWARE" OFF THE COUNTER.

Retailers should not leave copies of HARDWARE AND METAL around on the counters. The information that is published in its columns is purely for their benefit.

When a copy is left upon the counter there is nothing more natural than that a customer, on entering the store, should pick

it up and peruse its contents, particularly if he has a few minutes to spare.

We are persuaded that a very large majority of the readers of this paper do not leave their copies where they are accessible to consumers, and we are equally persuaded that those who are sometimes remiss in this respect only need to be reminded of it to be more careful in the future.

A LESSON TO RETAILERS.

FROM what can be gathered, there are a good many retail hardwaremen throughout the country who are not taking advantage of the recent advance in prices.

Because they bought the goods before the present high prices ruled they seem contented to sell at a figure, which, in many instances, is below what they could to-day replace these goods at. It is a most short-sighted policy.

Dealers appear more disposed to follow the market when it is declining than they do when it is appreciating.

A few days ago, a retailer visited a certain wholesale centre. He wanted to buy wire nails. He was quoted the market price. "Why," he declared, "how can I pay that price and compete with my neighbors, who are selling at \$2 base?"

He was told there was no help for it. And the jobber on whom he was calling advised him to go home and buy as many nails as he could from his competitors at \$2 base. He went.

This is a sample illustration of what is going on.

AGREEMENT ON HARVEST TOOLS.

An agreement among the manufacturers of harvest tools has been quietly effected in the United States, with the result that an appreciation in prices has followed.

It is claimed that Canadian jobbers who placed orders with manufacturers across the border will experience difficulty in getting delivery, on account of the largeness of the home demand. That, however, remains to be seen.

The Canadian manufacturers are also fully employed, and jobbers report that they are booking orders freely.

PRICES ON SILVER-PLATED WARE.

Prices on silver-plated goods have been withdrawn by the Canadian manufacturers, and jobbers have been advised that a moderate charge will hereafter be made for boxing and packing.

COMBATING DEPARTMENTAL STORES.

THE clause in the Montreal charter bill, which the Legislative Assembly of the Province of Quebec eliminated by such a large majority, read as follows :

An additional special tax, not exceeding 10 per cent. of the annual assessed value of the entire premises in which departmental stores are maintained and carried on, may also be imposed upon such persons, companies or corporations, for each separate and distinct branch of trade and business maintained and carried on in such departmental stores.

When this clause was drafted, **HARDWARE AND METAL** expressed the opinion that it would not become law. No matter how righteous it might have been, experience teaches that legislation of this kind is seldom obtainable, the opposition from the rural members of the Legislatures usually being strong enough to defeat it.

But, is legislation of this kind righteous? There is no law—divine, moral or commercial—which denies a merchant the right to carry in stock as many lines as he chooses, as long, of course, as none of them are of an immoral nature or are dangerous in character. This particular clause did not limit the number of branches of business a departmental store should conduct. But its purpose was obvious. If the departmental store, why not the dry goods, the grocery, the hardware and other stores? The clause, therefore, was an invidious one.

The departmental stores have wrought much evil to the legitimate dealer. There is no question about that. And, furthermore, they, undoubtedly, like nearly all large concerns, do not contribute their proper share of taxes towards the support of the municipalities in which they are situated.

There are legitimate ways in which these evils can be corrected, and it is to the procurement of these, business men should apply themselves.

As far as taxation is concerned, get laws that will secure equitable, and not invidious taxation as is now the case, and as would have been the case in Montreal had the special tax on departmental stores sought been secured.

In Chicago, only last week, one of the judges of the Supreme Court declared that a departmental storekeeper in that city was not guilty of violating any law in selling

meats, fruits, vegetables, etc., under the same roof with dry goods, jewelry, etc.

It seems to us that the proper basis for taxation is the turnover.

A bill which has been introduced in the Pennsylvania Legislature appears to be a step in the right direction. It proposes to tax each merchant according to the business he does. The rate to be one mill on the dollar. Each merchant to furnish sworn returns.

Under this, of course, a merchant that only does \$1,000 worth of business only pays \$1 in taxes, while he who does \$1,000,000 worth contributes \$1,000. Compared with the law now existing in the State of Pennsylvania this proposed law would lighten the taxes on all businesses up to \$10,000 and increase it on those in excess thereof. The tax on a \$10,000 business would, of course, be \$10. Under the present law it is \$12.50.

A law punishing merchants for issuing lying advertisements would also be in order, for we have departmental stores which continually advertise what they have not got, and misrepresent that which they have.

But, while exerting their influence for securing the enactment of better laws, merchants should not neglect to devise schemes for the improvement of their own business, for the most perfect and salutary laws are not able to do for the business what the merchant can do himself.

There must be judicious advertising, careful buying and careful selling, quick turnover of goods and short terms of credit, if any credit at all, bright stores, well-dressed windows, etc.

Against stores of this character departmental stores make little or no headway.

It is not the hour at which a man arises in the morning that makes him rich; it is what he does after he arises.

THE STORE OF THE SLOTHFUL.

The untidy hardware store is scarcely less unpleasant to the eye than the untidy grocery store.

Untidiness in any kind of store is an indication of sloth, and even slothful people are not favorably impressed with a slothful store.

DROPS FROM THE EDITOR'S PEN.

Worry is a potent factor for helping a man not to overcome a difficulty.

Work may tire, but it is idleness that incapacitates men for business.

Man's success in business is in proportion to the faith he has in himself.

He who lacks independence is usually overburdened with incapacity.

Well-directed energy is the ammunition with which life's battles are won.

Advertising tends to prevent merchants being advertised as insolvents.

Concern for employer is a powerful lever for raising self into a better position.

Look at a thing from a political standpoint and you are almost sure to squint.

Honesty wins in the long run, although it may at times appear to be hopelessly in the rear.

The race for business is keen, and he who enters upon it should be well and carefully trained.

While the "bulls" are tossing prices, it is to be hoped the merchants are catching dollars.

A man may be getting his experience cheap, even when he thinks he is paying dear for it.

Business was never built up by Chance, and those who wait for Chance will be overtaken by Failure.

The merchant who gives trading stamps provides the money that buys the goods that the trading stamp man sells and gets rich upon.

The precarious existence which a good many eke out is because they never stay long enough at one thing or in one place to hatch anything of value.

Advertising is a source of strength to a business, but the merchant who relies upon past advertising is like a man who trusts his last meal to keep him for ever.

Nobles & Hoare.

CORNWALL ROAD. STAMFORD STREET.

LONDON, ENG.

MANUFACTURERS OF
HIGH CLASS
VARNISHES

ONLY

for

RAILWAYS,

COACH BUILDERS,

HOUSE PAINTERS,

ENGINEERS,

JAPANNERS,

FURNITURE MAKERS,

CYCLE MANUFACTURERS,

SHIP, YACHT, & BOAT BUILDERS.



THESE CELEBRATED VARNISHES CAN BE OBTAINED
DIRECT OR FROM THE PRINCIPAL COLOR DEALERS IN
CANADA.

WALL PAPER FOR HARDWAREMEN.

GOOD taste and good judgment will be evidenced by the dealer whose wall papers are purchased from the carefully selected line of designs of wall paper introduced for 1899 by Colin McArthur & Co., Montreal. These designs are most tastefully brought out in the latest shades, both light and dark, of green, blues, reds, chocolates and buff; and, with the assistance of the most unique backgrounds and foregrounds, produce the finest tapestry and chintz effects.

Never before in the history of wall paper manufacturing has there been such a display of fine art in wall decorations as has been placed before the public this season. It requires continuous study for the designer, colorist and mechanic to keep pace with the ever growing demand for the most artistic wall decorations to suit the tastes and purses of all classes and conditions of people. The fact of Colin McArthur & Co. having an overwhelming flood of orders this season for all grades of goods, is the most substantial and encouraging evidence that could be desired of their ability to meet the public demands. It cannot be out of place to make here a special mention of a few of the lines which have been the most admired of an admirable range, one of which is illustrated in half-tone in the firm's advertisement, which appears elsewhere in this edition; viz., design No. 716, suitable for halls, dining-rooms, or library, in buff, terra cotta, dark brown, sage green or forest green. This

has been one of their most successful patterns, the frieze itself being an especial work of art, starting at the base in the deepest shades and blending up in beautiful gradations to the most delicate tints to match the ceiling. Colin McArthur & Co. claim to be away in the lead in this class of goods.

There is nothing in England, France, United States or Canada, they believe, that can surpass their latest blends, backgrounds and foregrounds, producing the most effective and entirely new results in modern wall decorations. The next to claim attention is No. 614, a handsome parlor paper in creams and light browns; and, for a special dining-room paper, one cannot help being attracted by No. 706, in creams or blues, which gives a most pleasing effect, in fact it is a real

tonic to the artistic mind. A truly recherche decoration for a reception-room or a library is 710, in greens, (sage, forest and stone), light blues or buff. Either of these colorings will make a charming room. Their line of ingrains has never been so complete as it is this season, introducing entirely new shades, with the handsomest borders that have ever been hung on a wall. Prominent among these are No. 996, 18 inches wide, and No. 907, 9 inches wide.

Anyone desiring up-to-date styles for the coming season, should not fail to inspect the samples sent out by this firm, who are certainly able to cope with Paris, London or New York in every particular style. They finally say that they will bear watching, and promise to surprise the trade next season with something more beautiful than ever.



MONTREAL ROLLING MILLS HOCKEY TEAM (CHAMPIONS).

T. O'Dowd. H. White. J. A. James. T. Moore. T. Lawlor.
A. J. Wood. Geo. Boyd. Geo. R. James (Capt.). A. Hough.

MONTREAL CHAMPION HARDWARE HOCKEYISTS.

The accompanying cut is an illustration of the bright young men who compose the Montreal Rolling Mills hockey team, which carried off the hardware championship in the "Commercial Metropolis." The victory of the team was an unusually complete one, for not only was it not defeated in any of the six scheduled games, but none of its opponents even scored a goal against it.

"DIAMOND MEDAL" BINDER TWINE.

The John Bowman Hardware & Coal Co., London, Ont., have just received a car-load of the Sewall & Day Cordage Co.'s "Diamond Medal" binder twine. The demand for this brand is large and the

firm's books are full of orders. The "Diamond Medal" brand is manufactured by the most improved machinery. The fibre used in its manufacture is of the finest quality manila, and the twine is guaranteed to run 650 feet to the lb.

The John Bowman Hardware & Coal Co., handle a full line of Sewall & Day's twines, viz., "Pure Manila," 650 feet, "Manila," 600 feet, "Standard Manila," 550 feet and "Standard," 500 feet to the lb. Hardware merchants who are interested in binder twine should write the firm for prices and samples of these goods.

THE "IDEAL" HAMMERLESS GUN.

Delorme Bros., 19 De Bresoles street, Montreal, are the agents for the "Ideal" double-barrelled, central-fire hammerless gun, which has become so popular with sportsmen.

The "Ideal" gun differs from all other makes in that the breech action body is made of one piece of solid steel; the bolt is made of cast steel and is very resistant, its bite upon the lumps is 2-5 of an inch, whereas, in other guns of best manufacture, this grip has never exceeded $\frac{1}{8}$ of an inch. Again, the "Ideal" gun is treble grip. This gives the gun an unlimited durability, allowing the use of any powder, without fear of the barrels working off the face of the action or permitting any escape of gas at the breech. The lever is contrived to meet the requirements of the service it has to perform; it is exceedingly strong and is so placed as to be almost entirely embodied within the handle

of the stock, terminating at the back of the trigger-guard, with a curved piece, designed to receive the first finger of the right hand of the sportsman.

The strikers combine solidity with simplicity, the point of each striker fits into the body of the action and the striker itself is operated in a direct line by a powerful spiral spring. The barrels of the gun are made in Damascus (Eclair) the quality of which equals its beauty. The safety bolt is of special make, of great simplicity, which checks the triggers at will.

The large sale of the "Ideal" gun is evidence of its popularity among sportsmen.

A file-making factory will soon be added to the Chaudiere industries.

CUTLERY

THOMAS ELLIN & CO.

Sylvester Works

SHEFFIELD, ENG.

TRADE MARK



TRADE MARK

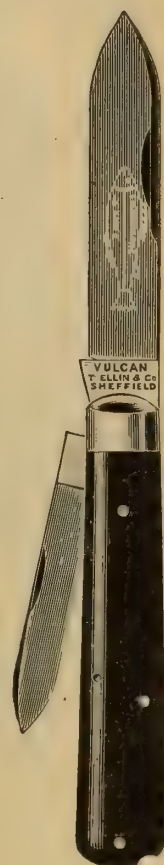


MANUFACTURERS OF

Table and Pocket Cutlery,

**Razors,
Scissors,
etc.**

**Cabinets
and Cases
of Table Cutlery
and Carvers.**



Sole Makers of the Celebrated "Woodhead" Cutlery.



All goods bearing name and trade mark guaranteed to be of best quality
and workmanship.

AMERICAN

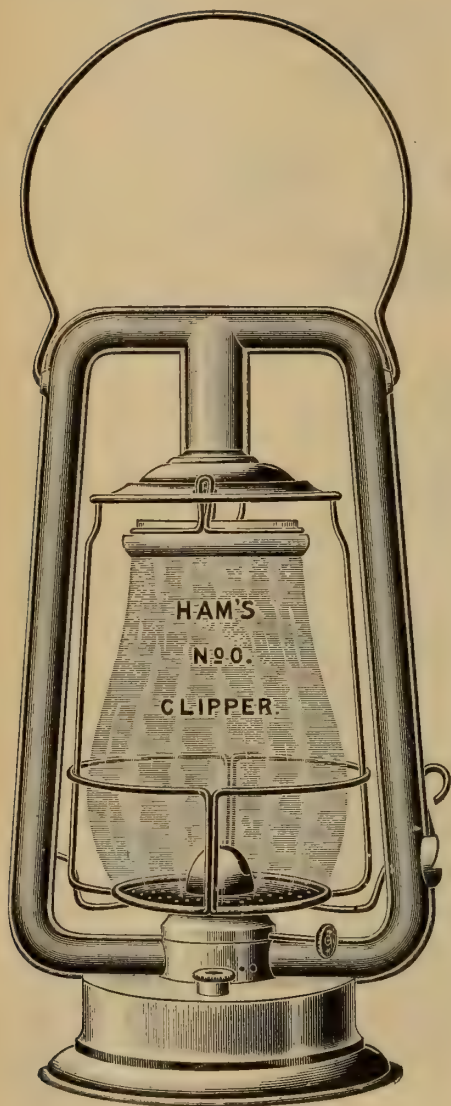


Figure No. 210.—Tin.

Ham's No. 0, "Clipper Lift"
Lantern.

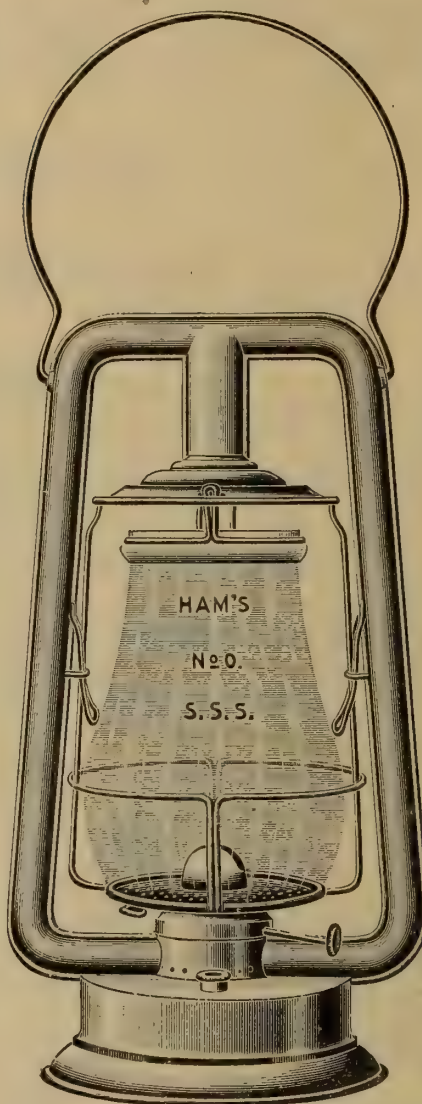


Figure No. 215.—Tin.

Ham's No. 0, "Side Spring
Safety" Lantern.

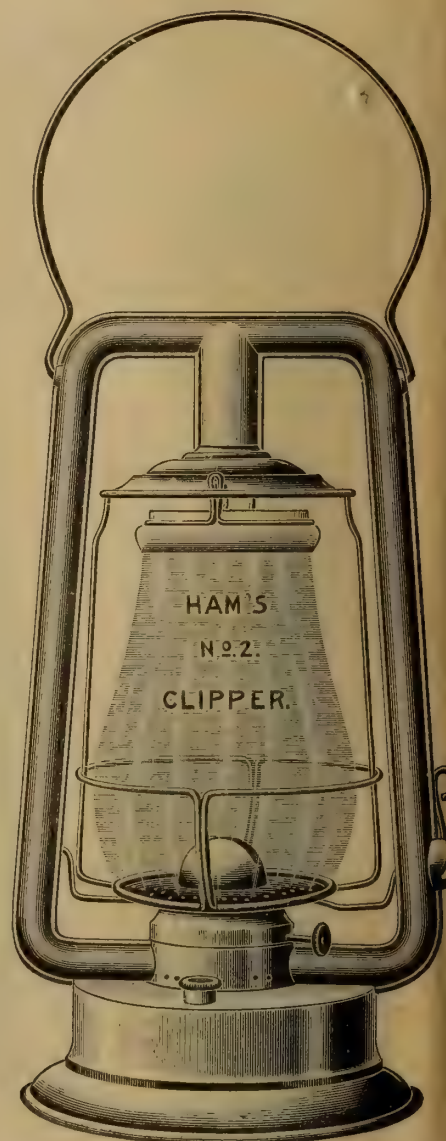


Figure No. 223.—Tin.

Ham's No. 2, "Clipper Lift"
Lantern.

We call attention to our **entirely new** line of Tubular Lanterns. We have American market, but we can now give you something far handsomer in appearance we have ever put on the market in the past. **Do not place your confidence** that we sell the jobbing trade only.

C. T. Ham Manufa
ROCHESTER,

LANTERNS

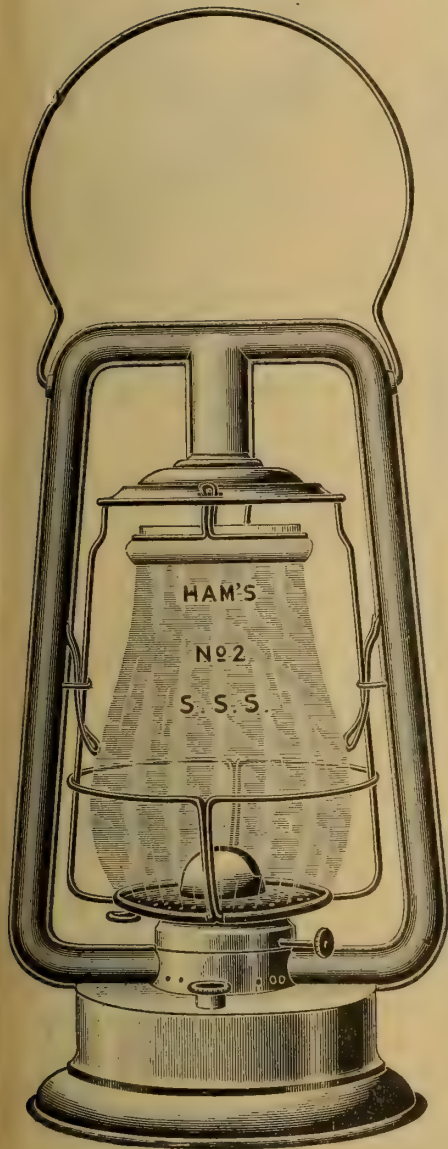


Figure No. 230.—Tin.

Ham's No. 2, "Side Spring
Safety" Lantern.
Two-Pieced Tube. 1899.

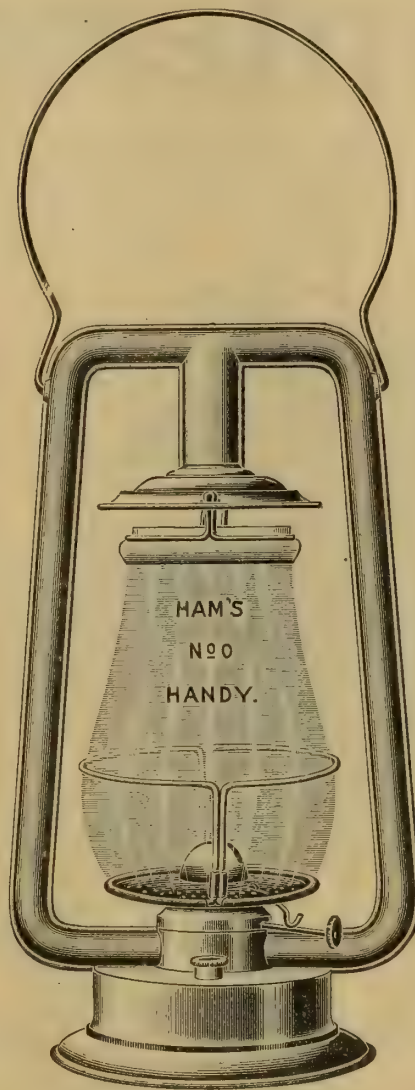


Figure No. 220.—Tin.

Ham's No. 0, "Handy" (Regular)
Lantern.
Two-Pieced Tube.

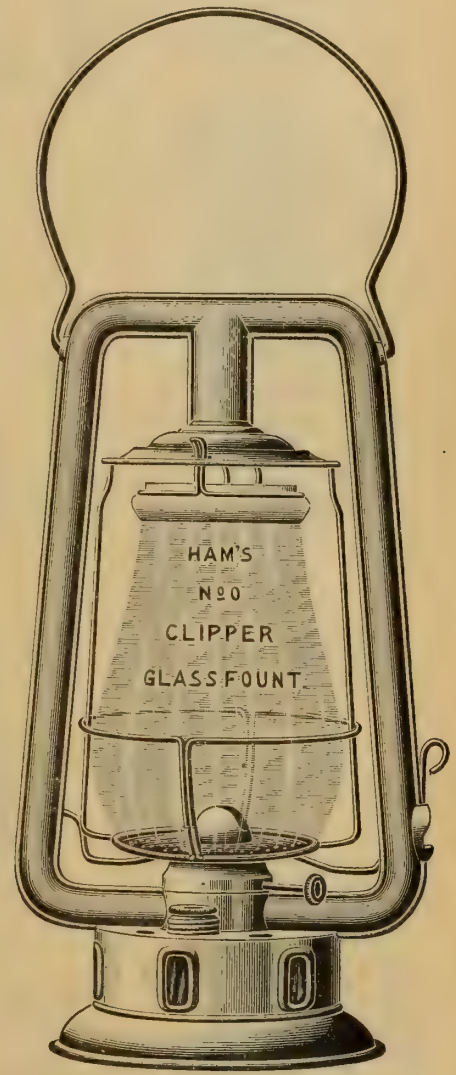


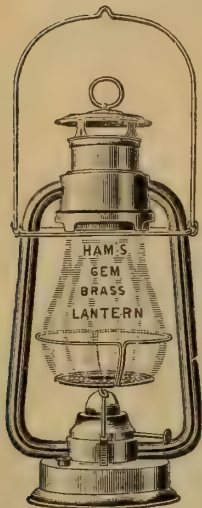
Figure No. 221.—Tin.

Ham's No. 0, "Clipper Lift"
GLASS FOUNT Lantern.
Two-Pieced Tube.

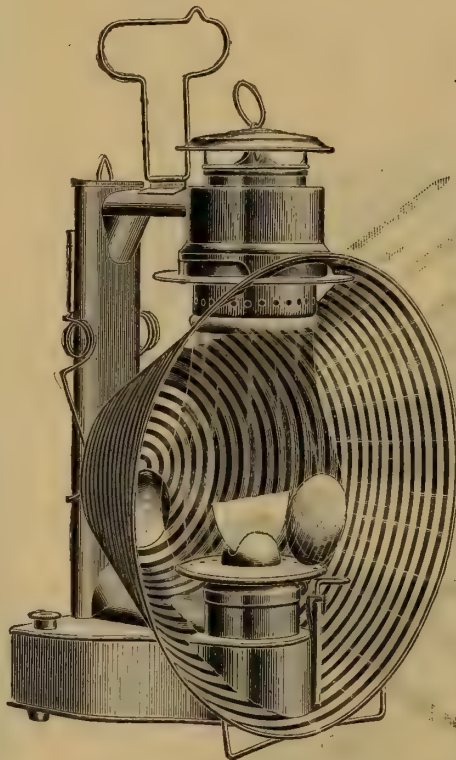
always had the reputation of having the handsomest and best line of goods in the
ance, better finished, and what is best of all, a much stronger burning lantern than
tracts until you have seen these goods and obtained our prices. Do not forget

cturing Company
N. Y., U. S. A.

American Lanterns



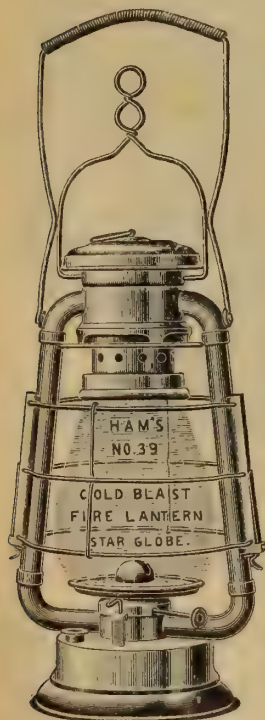
"GEM" LANTERN
Brass and Nickel Plated.



Ham's No. 20 SEARCH LAMP

Bull's Eye Globe, No. 2 1-in. Burner.

Gives a beautiful light; wind cannot blow out. Try them. See that Spring on back? Makes a good lamp for delivery wagon.

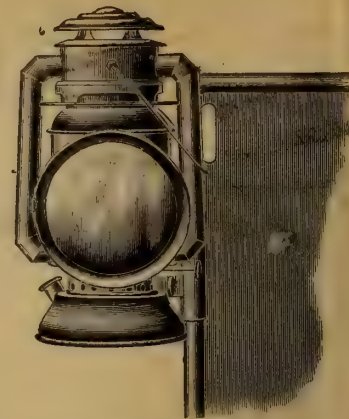


Patented
"CHIEF"

Ham's LAMPS
and
— LANTERNS

ARE THE BEST.

You don't want any just as good,
you want Ham's.



In position on side of dash.

HAM'S NO. 18.

Cold Blast Tubular

DRIVING LAMP.

Finished in black enamel and nickel plate, 4-inch Silvered Reflector, 4-inch Double Convex Lens, 1/2-inch Kerosene Burner. Burns Kerosene only. Height of lamp, 9 3/4-inches; weight of lamp, 32 ounces.



Patented.

HAM'S NO. O.

Oval Tube, "Side Spring"
Tubular

FIREMAN'S LANTERN

We Manufacture a full line of Lamps and Lanterns, from

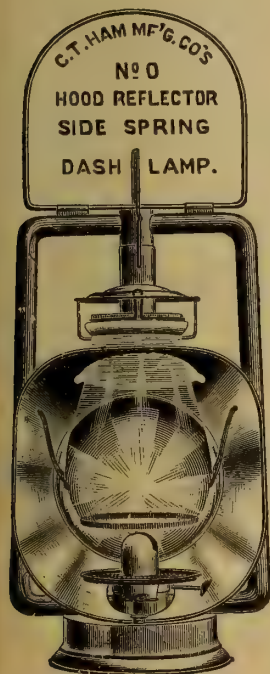
C. T. HAM MANUFACTURING



NO. 39.

Single Guard, Wire Bottom

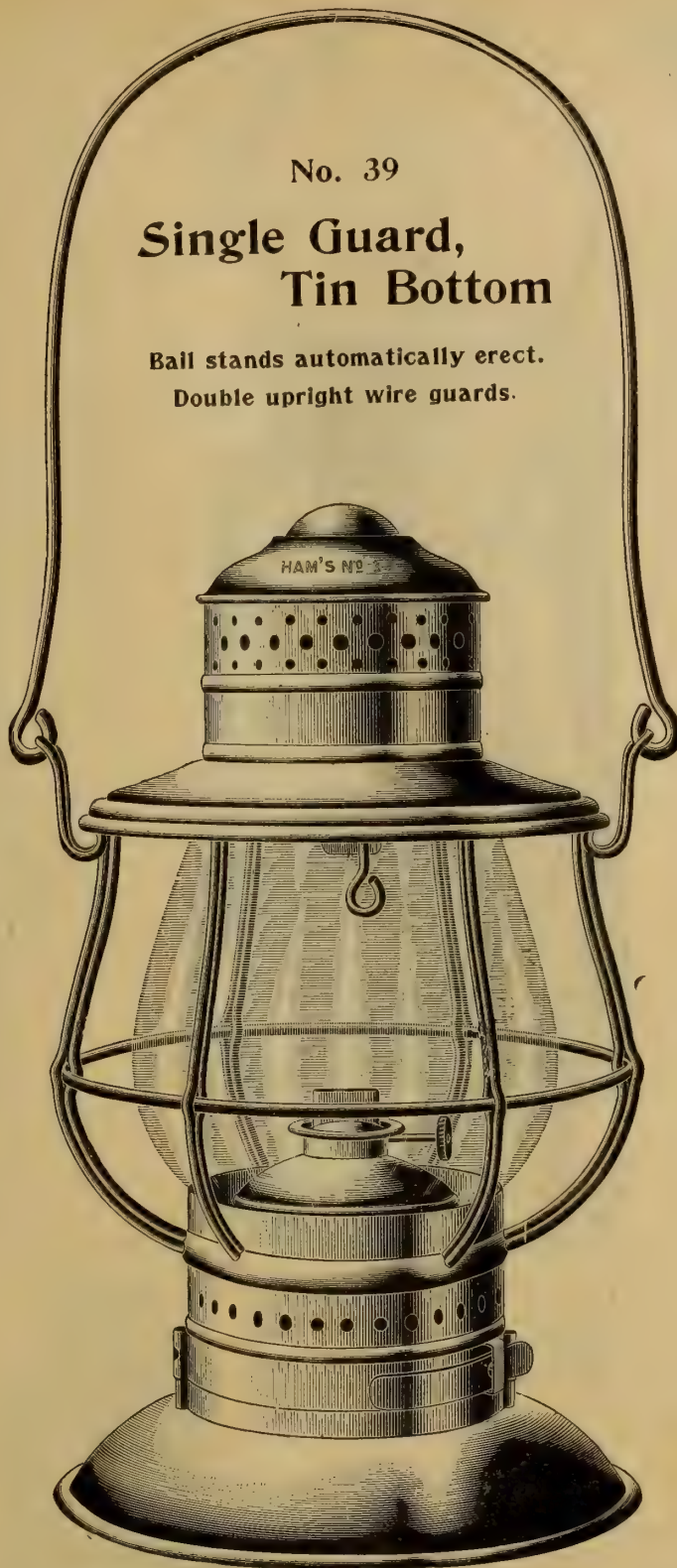
LARD OIL LANTERN



Globe Raised for Lighting.

(With Dash Attachment.)

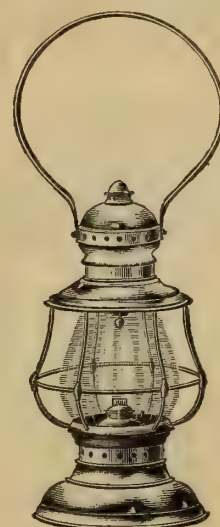
No. 1 High Cone Burner, 5/8-inch Wick,
No. 0 Globe, 5-inch Silvered Glass
Reflector; a very strong light; has
spring on back for attaching lamp
to dashboard.



No. 39

Single Guard, Tin Bottom

Ball stands automatically erect.
Double upright wire guards.



HAM'S NO. 3 1/2.

CONDUCTOR'S ... LANTERN

Takes Pullman Globe; elegantly finish-
ed in Brass or Nickel Plate.

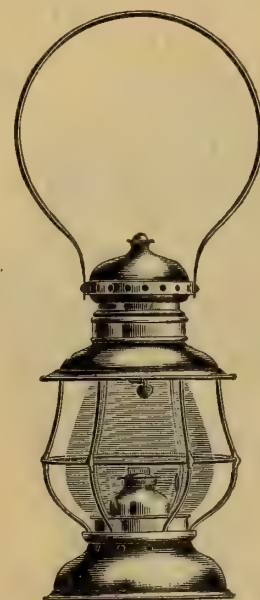


Figure 91.—NO. 1.

"QUEEN" GLOBE

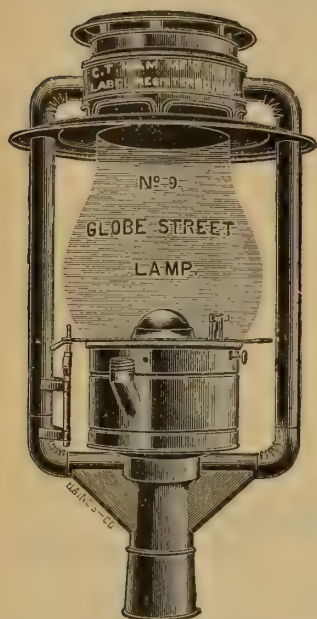
Screw Oil Cup.

HAM'S RAILROAD LANTERNS, Lard or Coal Oil

the Cheapest Tin Lantern to the Finest Conductor Lantern.

Co., ROCHESTER, N.Y., U.S.A.

AMERICAN



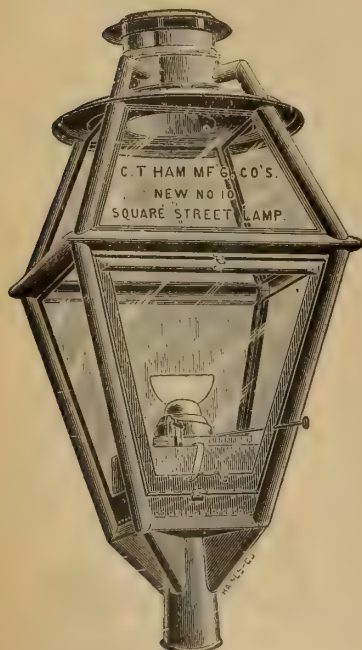
Ham's Celebrated No. 9 Globe Street Lamp.

FOR POST OR BRACKET.

The most Perfect Burning Lamp.

The light is brighter than any other street lamp made.

AUTOMATIC EXTINGUISHER.



Ham's No. 10 Improved Square Tubular Street Lamp.

WE MAKE

Blue and Red Japanned Lanterns.

Brass Plated Lanterns.

Copper Plated Lanterns.



Figure No. 235—Tin.

Ham's No. 2, "Cold Blast" Lantern.
Two-Pieced Tube.

No. 2 Burner.

No. o "Cold Blast" Globe.

No. 1 5/8-inch Burner.

No. o "Cold Blast" Globe.

Fitted with our Clipper Lift Attachment.



Figure No. 200.—Tin.

Ham's No. 1, "Cold Blast" Lantern.
Two-Pieced Tube.

These Lanterns made on the principle of our Celebrated Globe Street Lamp, with Wind-break, make them superior in their burning qualities to our hot blast lanterns, and very desirable for use in places where there are strong draughts of wind.

Fitted with our new No. o "Cold Blast" Globe makes them even stronger burning lanterns than before, and improves their general appearance. While we now furnish all these lanterns with our "Cold Blast" Globe, yet, should the trade in supplying new globes not have the "Cold Blast" Globes in stock, the regular No. o Tubular Globe, as formerly placed in this lantern, can be used all right.

It is especially adapted for use in mills and other places where there is considerable dust, as the burner will not clog up.

WAIT AND SEE OUR 1899

C. T. Ham Manufacturing

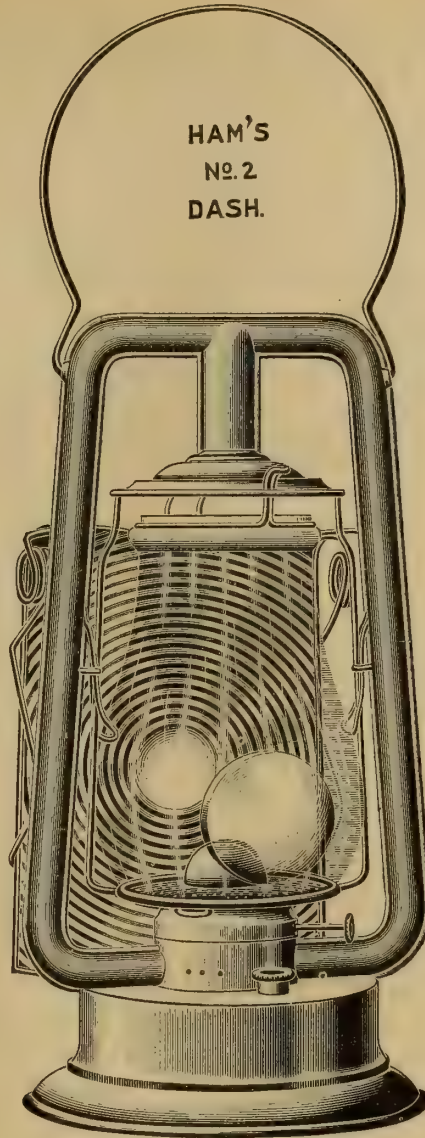
LANTERNS

HAM'S
No. 15
CLIPPER
DASH.



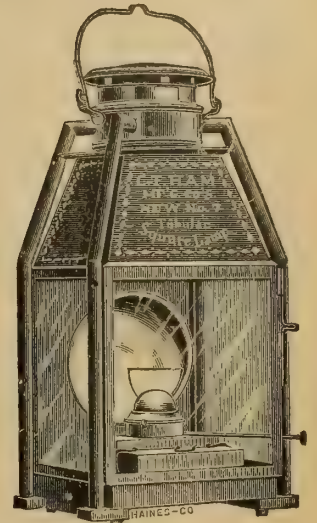
Ham's New No. 15, "Clipper
Dash" Lamp.
Two-Pieced Tube.
No. 1 1/4-inch Burner.

HAM'S
No. 2
DASH.



Ham's Celebrated No. 2, "Side
Spring Safety" Dash Lamp.
Two-Pieced Tube.

No. 2 Burner. No. 6 Plain and Bull's Eye Globe.



No. 7 New Improved Square
Tubular Lamp.

No. 3 Burner. 1 1/4-inch Wick
8-inch Glass Silvered Reflector
Height, 22 1/2 inches. Width, 11 1/4
inches. Depth, 10 1/2 inches.



Figure No. 143.

Foot Piece for Head-Light to set
on, on Boiler Head.

Ham's
10-inch Traction.

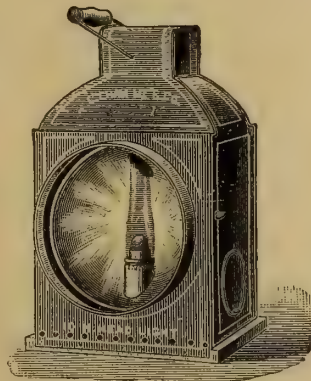
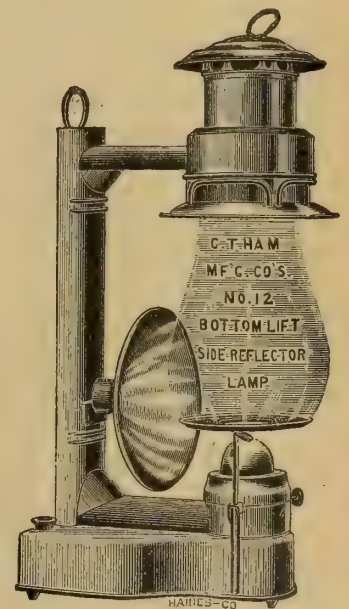


Figure No. 145.

Bracket for 10 and 11-inch
Stack.

Engine
Headlight.



No. 12 Tubular Side Reflector
Lamp. No. 2 Burner. 1-inch
Wick. No. 1 Globe. 6-inch Glass
Silvered Reflector.

N.B.—WE SELL THE JOBBING TRADE ONLY.

LINE UP BEFORE PLACING CONTRACTS.

Co., Rochester, N.Y., U.S.A.

WE MAKE

Nickle Plated Lanterns.
Silver Plated Lanterns.
Gold Plated Lanterns.

IRON PRODUCTION IN THREE COUNTRIES.

BY GEO. E. DRUMMOND.

THE past year has been a record one in the principal iron producing centres of the world, and, as far as Canada is concerned, 1898 may be considered as marking a new era in the native iron industry, the beginning of a modern expansion in the manufacture of pig iron within the borders of Canada that will in due time give us a respectable position among the great iron producing countries.

Following the usual course and reviewing briefly the iron markets of the world, we have first the United States, showing a most remarkable record for 1898 as far as production is concerned, and a wonderful rate of consumption that already, in February, 1899, indicates almost a famine in iron and products of iron. Figures for 1898 show that the United States produced 11,773,934 tons of pig iron, and this enormous production goes on at an increasing ratio, using up the available ore supplies at such a rate that the greatest difficulty may be experienced before the close of the present year in keeping the furnaces supplied.

The great revival of trade in the United States, brought about by two successive years of splendid crops and consequent increase in railway earnings, which enabled the railroad companies to undertake vast expenditures for new rolling stock, is the cause, no doubt, of a great deal of the revival, but everywhere most satisfactory expansion is marked in all lines of manufacture of which iron is the basis. The lessons of the war with Spain will probably result in a great expenditure being made by the American Government in perfecting their coast defences, and all this is in the direction of an increased utilization of iron.

The export trade in the United States in 1898, in all kinds of metals, reached the enormous sum of \$120,000,000. In the item of pig iron they exported 250,000 tons. With the scarcity of iron for home requirements at the present moment, it is not likely that they will press the export trade unduly in 1899, and the iron producers of other countries (and not least of all Canada) will have a chance to gain strength to meet future competition from the United States.

GREAT BRITAIN. — The British ironmasters hold second place as the iron producers of the world to-day. The total records of iron produced in Great Britain in 1898 are not yet to hand, but it is pretty safe to estimate an output aggregating 9,500,000 tons, as against a production in

1897 (revised figures) of 8,796,465 tons. The use of British iron has almost ceased in Canada, and while that does not mean that Britain is not holding her own in other markets, still the situation is a somewhat grave one for British iron producers, inasmuch as their ore supply is growing more precarious every day. The life of the Spanish iron mines, upon which Britain draws heavily for supplies, is already well understood to be but short. The product of the home mines grows steadily less, and it will be well for Great Britain to look to her colonies, such as Canada and Newfoundland, for her future source of ore supply. The indications are that this course alone will enable her to hold the position that she has held for so many years. The British home trade in iron has been very prosperous in 1898, exceeding that of any previous year. In shipyard and railway work, and in all branches of the iron trade, manufacturers have been exceedingly busy, and, with more or less freedom from strike difficulties, Great Britain emerges at the close of the year with a splendid record, but Canadians regret to note how very much "out of touch" they are to-day with the British ironmasters, who formerly supplied this country, and who have been replaced to a very great extent during the past few years by the iron producers of the United States.

GERMANY AND LUXEMBURG.—Enormous strides have been made by the Germans during the last three or four years in their iron industry, and the figures of production for 1898 (Germany and Luxemburg), 7,402,717 metric tons, come so close to the records of the British ironmasters that there is grave cause to fear that unless most vigorous measures, political and economic, be taken by Great Britain, her rank as an iron producing nation may be displaced by Germany, as it has been by the United States.

CANADA.—The output of the Canadian furnaces for 1898 exceeds that of 1897. Advices received from Hamilton, Ont., New Glasgow, N.S., and Radnor Forges, Que., report a combined gross tonnage produced of 75,920 net tons of pig iron, 23,541 tons of steel, and 2,276 tons of forgings. The combined tonnage of pig iron in 1897 was 57,904 net tons.

The works at Londonderry, N.S., were closed down throughout the year, the company being in liquidation, but this not because the market could not absorb their full output had the works been running. Every-

where the product of these Canadian furnaces has given entire satisfaction, so far as the quality of metal produced is concerned. The work of developing the Canadian mines has been carried on quietly, but steadily, and the new year opens with splendid prospects for a very much larger production of Canadian metal in 1899.

The new charcoal furnace constructed at Deseronto, during 1898, has just been put into blast, with an average output of 30 tons of charcoal metal per day, practically doubling the daily production of charcoal iron in Canada.

A new charcoal furnace is projected for Midland, Ont., by The Canada Iron Furnace Co., Limited, of Montreal, and Radnor Forges, this being a branch of their business at the latter point, but the intention being to manufacture at Midland an iron similar in quality to Lake Superior charcoal, and which is required for mixture with the special charcoal metal now made at Radnor from the bog and lake iron ores of the district of Three Rivers. The new Midland furnace will have a daily capacity of from 60 to 80 tons of charcoal iron.

A four-furnace coke iron plant, of large capacity, is projected by American and Canadian capitalists at Sydney, C.B., where the ores of Newfoundland will be smelted with Canadian coal.

Other furnaces are talked of, but those already mentioned will turn out sufficient iron to meet all the immediate wants of Canadian ironfounders, and doubtless a considerable quantity of the metal produced will be exported to Europe, especially, perhaps, from the proposed Cape Breton plant.

The time is rapidly approaching when the product of the Canadian furnaces will have to be carried (on a larger scale than the present) to the finished stage of iron and steel of all descriptions, there being an ample and increasing home market for such products.

The following are the records of the furnaces at Hamilton, Ont., New Glasgow, N. S. and Radnor Forges, Que., for 1898:

THE HAMILTON BLAST FURNACE CO., Limited, Hamilton, Ont.

Ore smelted	(tons of 2,000 lb.)	77,923
Scrap and mill cinder	" "	8,614
Limestone	" "	13,799
Coke	" "	50,407
Pig iron product	" "	48,253
Average number of workmen		130
Wages paid for labor		\$ 61,476
Value of pig iron at furnace		530,789

The coke used at this furnace is all of American make and the same applies to a

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ARE
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Screws
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Vises
Pipe
Nails
Whips
Pitch
Twines
Tacks
Burners
Hog Rings
Sap Spouts

Shovels
Scoops
Spades
Scythes
Snaths
Hammers
Mattocks
Hatchets
Wrenches
Turnscrews
Sand Paper
Door Bells
Door Locks
Door Bolts
Bellows
Steel
Iron
Chain
Rope
Wire
Traps
Rifles
Revolvers
Oakum
Oil Stoves
Rivets
Scales
Manure Drags
Sap Buckets

Corn Planters
Fence Wires
Wire Stretchers
Post Hole Augers
Post Hole Spoons
Tree Pruners
Augers and Bits
Emery Cloth
Blacksmiths' Tools
Galvanized Iron
Boot Calks
Window Glass
White Lead
Paints and Oils
Peavies
Brushes
Putty
Tackle Blocks
Cutlery
Hinges
Horse Shoes
Horse Clippers
Horse Nails
Handles
Measures
Wire Cloth
Scythe Stones
Clout Nails
Lamp Glasses

Farm Bells
Draining Tools
Wheelbarrows
Poultry Netting
Wooden Ware
Tinware
Granite Ware
Ice Cream Freezers
Barrel Churns
Dash Churns
Mangles
Wringers
Washing Machines
Guns and Rifles
Ammunition
Powders:
"Schultze" Smokeless
"Dead Shot" Black
House Furnishings
Plow Lines
Axle Grease
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Lace Leather
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MANUFACTURERS ARE ADVANCING PRICES.

ORDER AT ONCE TO SECURE THE BENEFIT OF PRESENT FIGURES.

H. S. Howland, Sons & Co.

37-39 West Front St.

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Right Prices.
Prompt Shipments.
Wholesale
Only.

Right Prices.
Prompt Shipments.
Wholesale
Only.

GRAHAM CUT AND WIRE NAILS ARE THE BEST.

considerable proportion of the iron ore smelted.

THE NOVA SCOTIA STEEL CO., Limited,
New Glasgow, N.S.

Production for 1898 :

Pig iron made	21,627 net tons.
Steel made	23,541 "
Forgings made	2,276 "

The materials used being as follows :

Coal	107,000 net tons.
Canadian ore	19,000 "
Newfoundland ore	15,000 "
Spanish or Cuban ore	6,000 "
Coke	32,000 "
Limestone	18,000 "

Average number of men employed	750
Wages paid—about	\$280,000

N.B.—These figures do not take into account the men employed in mining coal, nor does it include the various parties employed professionally and otherwise and not paid directly by the company.

In addition to the operations carried on by this company, they have, during the year, been working their Newfoundland iron ore property more extensively than ever before, having shipped to Germany and Scotland about 75,000 gross tons, besides bringing over 30,000 tons to their own works at Ferrona.

THE CANADA IRON FURNACE CO., LIMITED (Montreal and Radnor Forges).—Owing the plant being overhauled and improved during the year, the campaign was only of about eight months' duration. The production during that time was :

Special charcoal pig iron	6,040—420-2,000 tons
Charcoal-made	580,100 bush
Ore-made	14,400 net tons
Limestone flux-made	1,432 "
Average number of men employed	600

This company used Canadian material entirely.

As usual, the labor in connection with this furnace was principally drawn from the farming class, and the field work is, therefore, of a more or less intermittent character, being performed at seasons of the year when the farmer is not engaged in his usual agricultural pursuits. A very large number of horses are also employed in teaming the ore and wood necessary for the supply of the furnace.

The product at Radnor Forges continues to attract most favorable consideration from engineers abroad, as well as at home. During the year, shipments of "C.I.F." special charcoal metal were made from the furnace to leading establishments in Great Britain, France, Germany, and the United States, and the demand for this special iron is an increasing one.

The furnaces in blast show a healthy, strong, business growth, and the projected furnaces (all in strong hands) now coming into the field is good evidence of the fact that we are on the eve of a very considerable expansion of the native iron industry. A great factor in bringing this about is the

settled condition with regard to the Governmental policy of encouragement. If that policy is steadily maintained for a few years to come, Canada will have an industry that she may well be proud of, one that will strengthen and build up every other kindred industry in the Dominion, and an industry, too, that will be useful in an Imperial sense, making for the independence of the Empire in so important a commodity as iron.

[Paper read before the Canadian Mining Institute, Montreal, by Geo. E. Drummond, vice-president, and specially revised for **HARDWARE AND METAL.**]

CANADIAN AND UP-TO-DATE.

The Windsor Ont., branch of The Acme White Lead and Color Works has been purchased by local capitalists and has become a strictly Canadian concern. It has been formed into a joint stock company. The interested persons are Messrs. John Davis, mayor of the city ; O. E. Fleming, solicitor ; Jas. A. Straith, merchant ; R. L. Dunn, and Albert Stroll, pushing business men.

The factory has been renovated and enlarged and is now equipped with not only the best machinery but skilled workmen, who will be able to turn out all the requirements for all classes of the trade, from the smallest retail merchant to the largest manufacturer or jobber. We bespeak a bright future for them.

A GOOD SAMPLE CARD.

The B. Greening Wire Co., Limited, Montreal, have got up a very convenient and handsome sample card especially adapted for sending samples of woven wire or perforated metals. The card is about 7 x 3½ inches, and is provided with a folding flap which helps to secure the sample firmly in place. On a blank space a description of the goods is written, so that the party interested has not to refer to the correspondence for particulars, but has a full description of the goods before him. These will no doubt be appreciated by the trade generally.

A PROFITABLE FENCE FOR DEALERS.

The goods which hardware merchants most desire are those which embody profit as well as quality. The "Diamond Grip" fence, manufactured by the Canada Fence Co., London, Ontario, embraces these qualities. As will be noticed by the advertisement printed in another column, it is claimed that this fencing wire gives three times the profit, besides possessing the remarkable wearing qualities which are claimed for it. Hardware dealers who have not yet this wire in stock should write the Canada Fence Co. for prices. It is always well to have a good article in stock.

GILBERTSON'S

"COMET"

BRAND

**Patent Flattened
Galvanized
Steel Sheets**

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized and carefully selected; will double seam either way of grain; are **fully equal** in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and **cost less.**

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. **Cost** no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

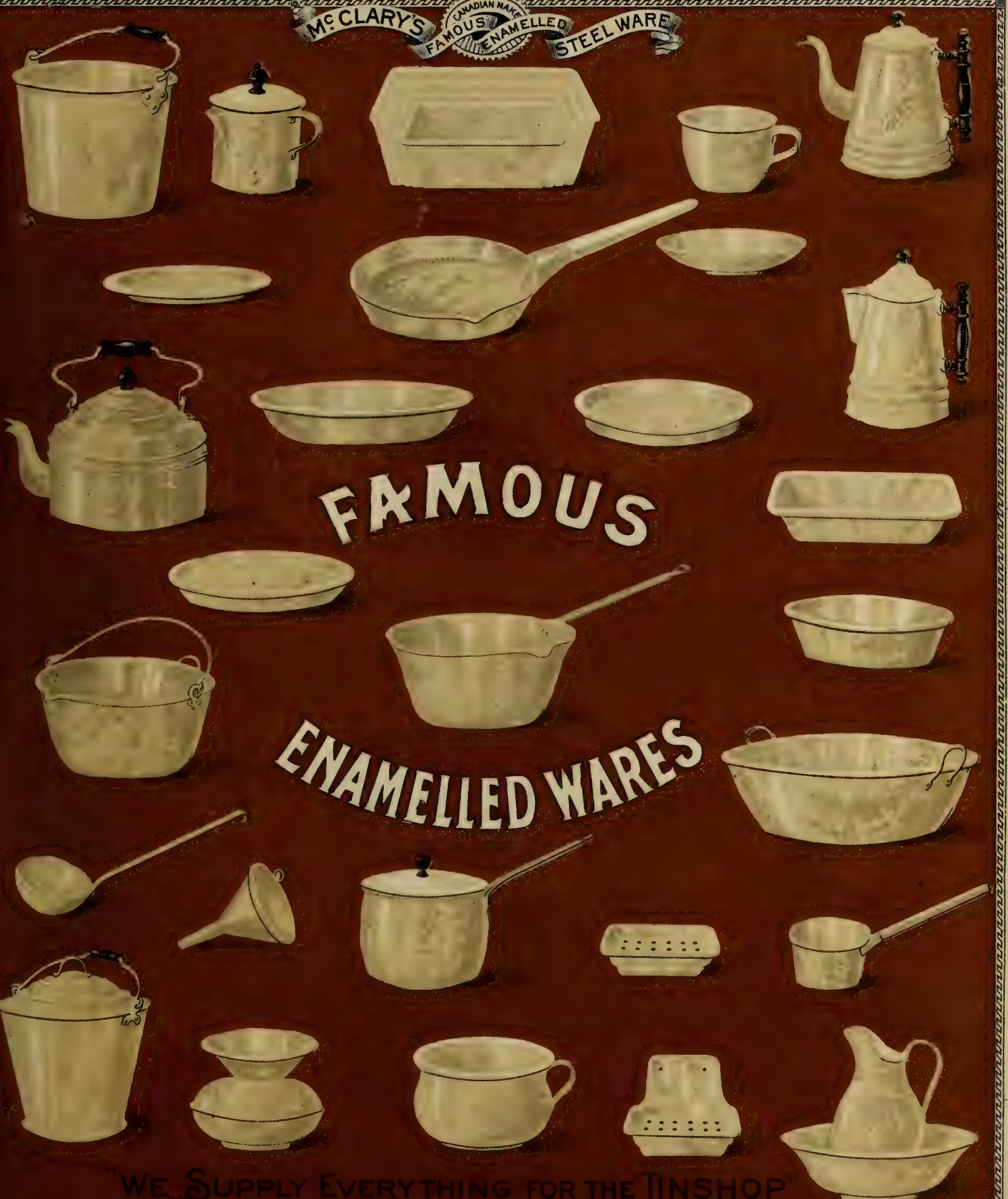
also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent 22 St. John St., MONTREAL

McCLARY'S
CANADIAN MAKE
FAMOUS ENAMELLED
STEEL WARE



FAMOUS

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CANADIAN HARDWARE AND METAL

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"WE SUPPLY EVERYTHING FOR THE TINSHOP"

THE McCLARY MFG. CO. LIMITED

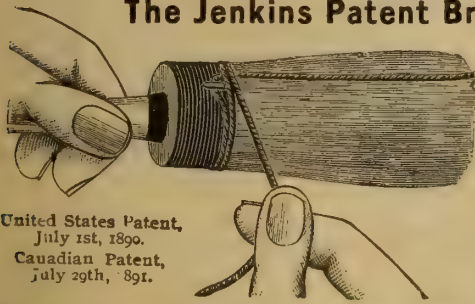
LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER.



Barclay, Clark & Co. Lith. Toronto

The LONDON BRUSH FACTORY

The Jenkins Patent Bridle Catch



United States Patent,
July 1st, 1890.
Canadian Patent,
July 29th, 1891.

To Master
Painters
and
Dealers.

Manufacturers of all
classes of

BRUSHES AND BROOMS

FOR THE HARDWARE TRADE.

We wish to call attention to the fact that all our Paint and Varnish Brushes are fitted with the Jenkins Patent Bridle Catches, and that the larger sizes of these Brushes are supplied with Bridling Twine. As all Practical Painters prefer to bridle their Brushes with Twine, these Patent Catches are indispensable. Try a sample lot of our new lines of Black Chinese Bristle Paint and Varnish Brushes, they sell at sight.



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Fence Building Tools
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Ask wholesale dealers for these goods, or
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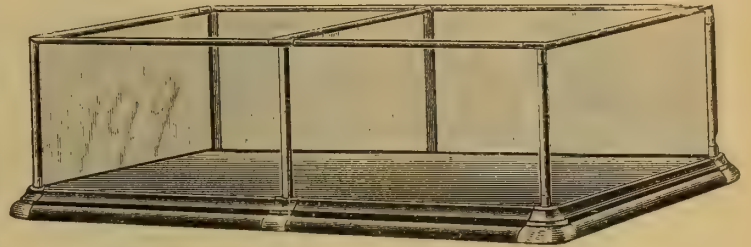
Otterville Manufacturing Co.

Limited,

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LONDON SHOW CASE WORKS

Manufacturers of
all kinds of



Estimates Furnished.

Write for Prices.

Show Cases, Store and Office Fixtures.



D. H. GILLIES & CO., 673 Bathurst St., London, Ont.

Sewall & Day Cordage Co.

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45 BROAD ST., BOSTON, MASS.

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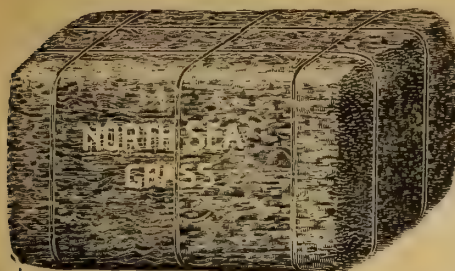
This Brand is a guarantee of the Best Binder Twine made.

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T. BURROWES ROSS

417 Board of Trade Building, Canadian Representative, **MONTREAL**



"North Sea Grass"

Used for Carriages, Furniture, Mattresses, Deadening Quilts, Packing and **many other purposes.**

A splendid substitute for Curled Hair, Louisiana Moss, African Fibre, etc., etc.

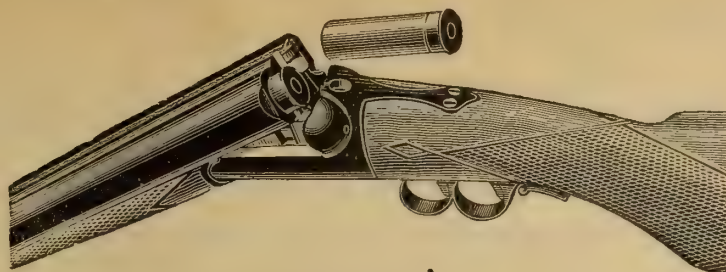
Sole Proprietors and Harvesters

"North Sea Grass."

DELORME BROS.

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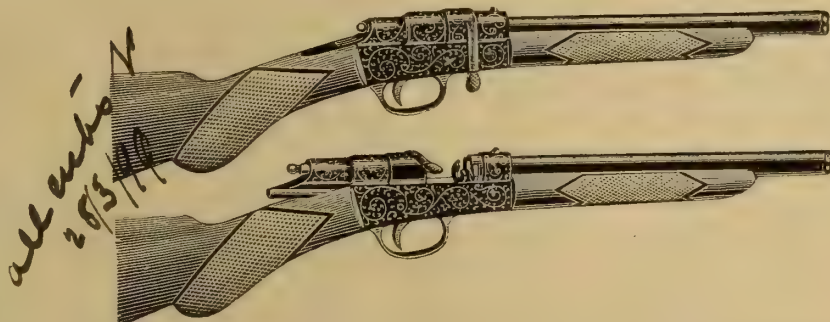
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The "IDEAL"

Double-barrelled central fire hammerless gun. Patented in all countries.

The greatest success of modern gunnery.



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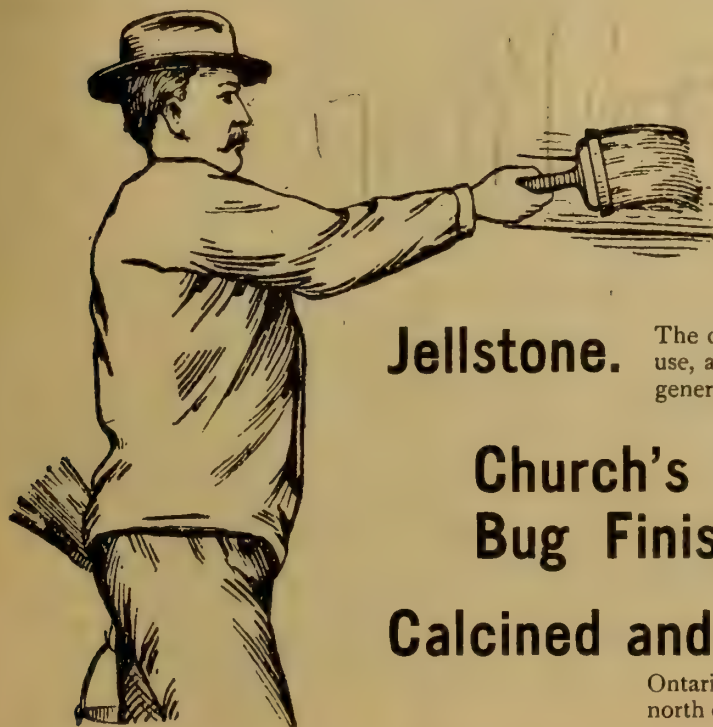
The simplest, the finest, and the best rifle in the world. Made in different calibres.

The "BUFFALO-EUREKA"

Same principle as the "Buffalo," but with double barrels, one for shot cartridge and the other for ball cartridge.

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Church's Cold Water Alabastine



The King of Wall Coatings

There is no doubt of its superiority over everything else in this line on the market. It is on sale everywhere from the Atlantic to the Pacific, and in all English speaking countries. Extensively advertised and pays the dealer a good profit. Sixteen beautiful tints and white, in five-pound paper packages. **Never sold in bulk.** Write for tint card and prices.

Jellstone.

The only genuine Cold Water Kalsomine, made especially for painters' use, and sold only in bulk, at a cheap price. Not advertised to the general public. Write for prices.

Church's Potato Bug Finish . . .

The most efficient insecticide on the market. Worth its cost as a fertilizer. Safe to handle, and always ready. No mixing required. Three hundred pounds in every barrel.

Calcined and Land Plaster.

We are the only manufacturers of Calcined Plaster in Ontario. Write for prices and freight rates to all points west and north of Toronto.

The Alabastine Co., Limited, - - Paris, Ont.

BUSINESS AND ITS MANAGEMENT.

UNIFORM BOOKKEEPING.

By A. O. Kittredge.

THE bookkeeping of a business is its historical record. The record, to be of real value, must not only be correct in details, but must also be scientific in arrangement. The foundation upon which bookkeeping rests is the science of accounts. Scientific bookkeeping, therefore, is the only kind of bookkeeping which the progressive business man can tolerate. Bookkeeping, as an art, may be defined as the practical application of the principles of accounts to the records of business. Whatever methods embody the correct application of these principles constitute good bookkeeping. On the other hand, those methods which neglect or violate the principles of accounts serve to illustrate poor or inadequate bookkeeping.

The only possible

BASIS FOR UNIFORM BOOKKEEPING

in a given industry or line of trade is to be found in the accounting principles which underlie that bookkeeping. Given a correct statement of principles as a foundation, then the only differences there will be in the arrangement of books of accounts for different establishments in the same business by different occupants will be in minor and unimportant details.

That uniformity in business methods is something greatly to be desired, so long as the methods are correct, is so manifestly true that it is universally conceded. Uniformity in the bookkeeping of each given line of trade is likewise desirable, for bookkeeping is a business method. Especially desirable is uniform bookkeeping in each division of trade and industry, if the bookkeeping is of the very highest type.

The most advanced interpretations of accounting and the most scientific forms of bookkeeping are far less complicated than are the ordinary unscientific plans in common use. As a fact, the

BEST AND HIGHEST FORMS

are the easiest for the business man to comprehend and work with. They cost less in original equipment and also in daily labor than do poorer methods. There is, therefore, business economy of the most pronounced character in using the very best that can be obtained. On the other hand, there is wilful waste and profligacy in adhering to the poor and the commonplace.

The immediate object of all bookkeeping is to produce a correct balance sheet or

business statement, as it is frequently called. When we open the accounts representing our business venture we begin with a statement of our assets and liabilities. We then proceed to do business for a certain period, buying and selling goods, and exchanging values in various ways. Each of our transactions results in either a profit or a loss. Each transaction is also accompanied by an expense, more or less clearly defined. So long as our profits are larger than our combined losses and expenses, we make money. Whenever our losses and expenses, taken collectively, exceed the profits on our transactions, we lose money.

TO ASCERTAIN OUR STANDING

at the end of the period we turn to our accounts for the data by which to make out a new balance sheet or business statement. A measure, therefore, of the adequacy of the bookkeeping we are employing is afforded by the ease and celerity with which the new balance sheet can be produced.

The highest type of bookkeeping provides a perpetual balance sheet. In other words, a going balance sheet and a going profit and loss statement are made integral parts of the bookkeeping system itself. They are always complete and up-to-date and are ever in shape to afford answers to all the questions that arise in the business man's mind as to his progress and as to his exact financial condition.

It is only through the introduction of uniform bookkeeping in the different trades and industries that the cost of instruction in the most advanced methods and the cost of equipment and supplies for the same can be kept down to the lowest possible figures. The employment of what are regarded as

SPECIAL BOOKS

has the effect of reducing their cost to figures closely competing with the prices of regular stock books such as are usually carried by stationers. Again, the use of a common bookkeeping plan by a large number of business men in the same line of trade has the effect, in the course of time, of developing its various strong points and perfecting all of its details. The interchange of ideas between men employing the same methods, which becomes possible upon this basis, serves to prune and adjust the system to the advantage of all until, ultimately, through cultivation and judicious selection, there is produced what can by no means be excelled and what becomes indispensable to the trade or industry.

INTEREST ON OPEN AND PAST DUE ACCOUNTS.*

By F. J. Hopkins.

As thoughtful credit men and thrifty merchants we should ever have in mind the all-important net profit of our business. We are yearly confronted with the facts that by closer competition, smaller profits, and the occasional lopping off of items here and there, that were enjoyed by us when our trade territory was younger, and could be legitimately reckoned on as containing some profit, realize that the task of making a satisfactory showing at the end of the year has become a difficult one. And it is to prevent the growth of this pruning process that I invite your attention. We should see that

NO ITEM DIRECTLY REDUCING OUR PROFITS or adding to our loss or expense be parted with or incurred lightly; but rather guarded against with zealous care.

The special item to which I refer, that of charging interest on open past due accounts, is connected so closely to profit or loss, and bears so plainly upon its face the stamp of justice that no argument would seem necessary in a credit men's association to induce all to make this change.

If the jobber or manufacturer has the ability and

DISPOSITION TO BORROW MONEY,

or can, from his capital, accommodate his customers—many of whom could not secure one-half the line of credit from their home banks at 10 or 12 per cent. interest, and with their best collateral security—should they not, at least, repay the friend-in-need what it has actually cost him to be able to carry them through a time when money is scarce in the agricultural districts, to say nothing of the risk he has assumed, and that without security? We believe they should.

The house that I have the honor to represent each year borrows many thousands, that we may be able to

ASSIST OUR CUSTOMERS,

permitting them to do a more extensive business; and, in many cases, by such accommodation, we furnish a portion of their capital with our credit. For every dollar so borrowed by us, any sane man knows we pay interest (in advance), and, for that reason, each month, on our books,

* Address before The Minneapolis Credit Men's Association.

The Doon Linen Mills

M. B. PERINE & CO.

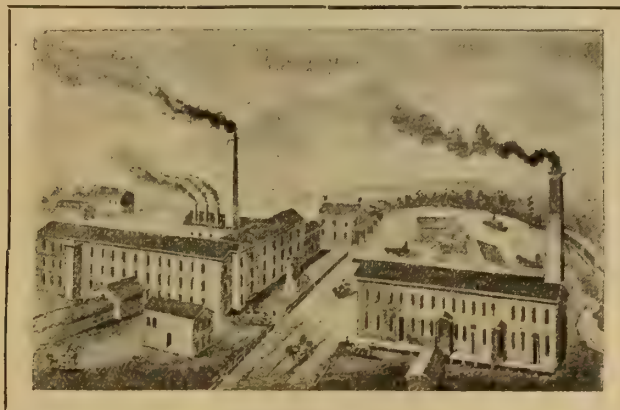
Manufacturers of every variety of

FLAX, HEMP,
JUTE and
COTTON

Twines.

FLAX and
RUSSIAN HEMP

Cordage.



LINEN and JUTE

Yarns.

TOW BATTING

GREEN and CARDED

Tow.



Correspondence Solicited.

DOON, Ont., Can.

Pearl Stoves

THE GREAT SILVER STEEL LINE.

Easiest and most profitable
goods to sell.

The New National Pearl

The most modern range ever placed on
the market.

Duplex grate, can be removed without
disturbing firebrick or waterfront; no bolts,
pins or rivets.

Silver steel oven with our patent truss.

Size of oven, 21 x 21.

Oven ventilated; with or without ther-
mometer.

New damper construction.

Write for particulars.

THE...

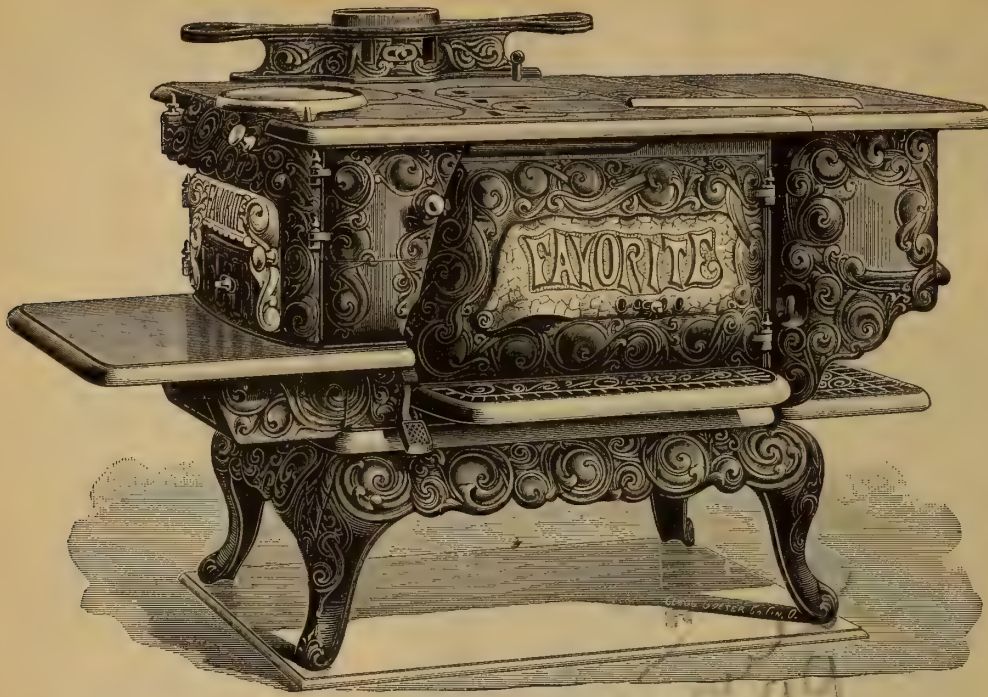
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LIMITED

Makers of fine Cooking
Stoves and Ranges.

WESTON, ONT.





Most Modern
Designs.

Beautiful
In Finish.

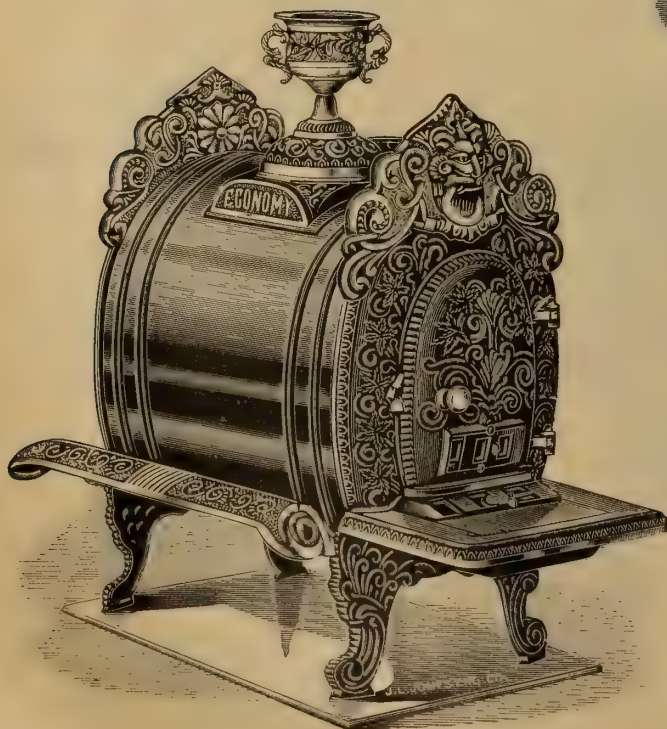
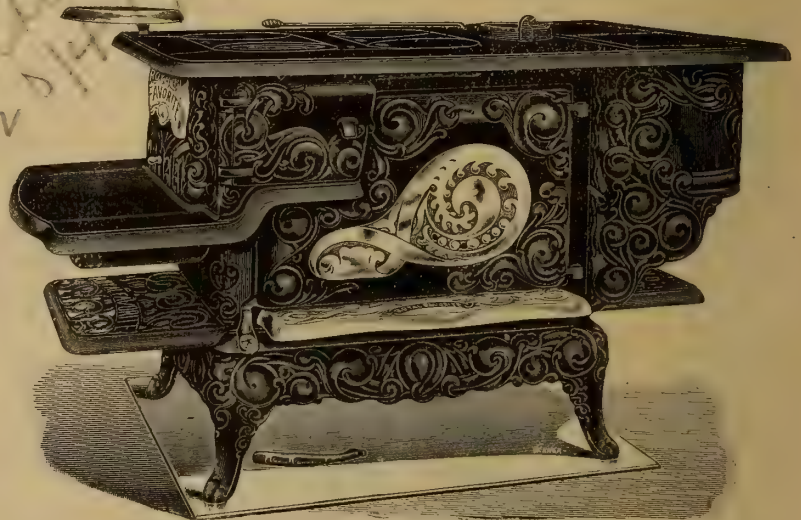
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With Steel or Cast Ovens.
In all Sizes, Styles and Prices.
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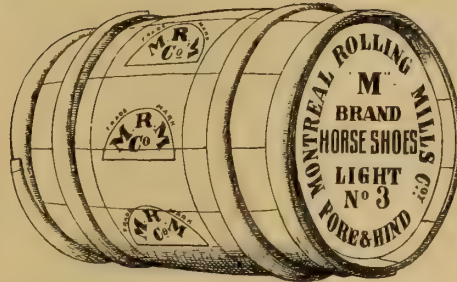
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Montreal Rolling Mills Co.

WIRE NAILS
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SAME OLD TRADE MARK.

BEST MATERIAL and
WORKMANSHIP.

THEREFORE

UNEXCELLED.

Buy M. R. M. CO'S Goods

And you will get THE BEST.

TANDEM ANTI-FRICTION METALS.

TANDEM METAL is, in fact, the scientifically solved problem of the best, and at the same time cheapest, Anti-Friction Alloy out of the most suitable elements known at the present time, for lining as well as making solid bearing shells. To fulfil all the trade requirements Tandem is made in three grades, as follows :

A QUALITY. FOR HEAVIEST PRESSURE AND MEDIUM SPEED
or HEAVY PRESSURE AND HIGH SPEED.

Especially main bearings of marine engines, boxes of large steamship crankshafts, locomotive axle bearings, bearings of rolling mills, dynamos, large wood-working, centrifugal, and spinning machinery, emery wheels, etc.

B QUALITY. FOR HEAVY PRESSURE AND MEDIUM SPEED
or MEDIUM PRESSURE AND HIGH SPEED.

Especially axle boxes of railway carriages and tramcars, bearings of steam, gas and oil engines, medium crankshafts, rolling mills, grinding, pumping, etc., machinery and all kinds of journals and ordinary shafting.

C QUALITY. FOR MEDIUM PRESSURE AND HIGH SPEED
or LOW PRESSURE AND HIGHEST SPEED.

Especially for bearings of light machinery and shafting, for steamship tunnel shafts of all sizes, axle bearings of field transport and tipping lorries, for cement, clay and brick works, and also for bearings of light high-speed machinery, as wood-working, centrifugal, etc.

Tandem Metals fulfil better than any other their purpose, and are, therefore,

THE MOST ECONOMICAL
THE LEAST WEARING
THE MOST DURABLE
FRICTION PREVENTING

RESISTANCE REDUCING
JOURNAL PRESERVING
POWER INCREASING
LUBRICANT SAVING



ANTI-FRICTION METALS.

SOLE AGENTS

LAMPLOUGH & McNAUGHTON,

59 St Sulpice St., MONTREAL.



on all past-due accounts, city or country, interest is computed, charged and collected at the rate of 8 per cent. We make no charge on any account when the amount for 30 days would be less than \$1; but, on such accounts, interest is figured and charged once each three months.

This is a subject that brings to the credit desk many "kicks," as you all know, who make a

PRACTICE OF COLLECTING INTEREST.

But it has been our experience, when proper explanation is made, and the necessity of our recovering for an expenditure, incurred to assist them, it is the exception that objects to its payment.

The two arguments against this charge that we are constantly called upon to meet are these: "Other houses with whom we deal make no such charge, and their accounts are just as large and long past due as yours," and "We cannot collect interest on open accounts with our customers." As the first argument is the most difficult to answer, and

THE SINNERS RESPONSIBLE

therefor are in our own camp, it is this condition and the need of reform that called forth this article. The material for putting forth this argument against a just charge should not be voluntarily furnished by us, for we are not only neglectful of self, but are unfair to those who claim their own in withholding this charge.

The last argument is one easily met by the reply that if we enjoyed your profits, we would not have the courage to make the charge either; or, why don't you?

PRINTED STATIONERY.

There are very few merchants who to-day have not in their office printed stationery. But, still, there are some.

Printed stationery is not absolutely necessary, but it is better to have it than to be without it. It looks better, to say nothing of being more businesslike.

The cost is so small that it positively does not pay a merchant to be without printed stationery—that is, letterheads, billheads, and envelopes.

A letter from a business man which is written on plain paper has a cheap appearance, and, naturally, gives one the impression, whether rightly or wrongly, that the business is small and unimportant.

But, aside from appearances, there is the advertising value which surrounds printed stationery. It certainly has not the same properties in this respect as the advertisement in the trade or daily paper, but it has a by no means insignificant value, and a value which is certainly not costly.

FINANCIAL MANAGEMENT OF A RETAIL BUSINESS.

By G. L. Putnam.

It is a matter of prime importance to the retail merchant that he should save the discounts on his bills. It is said that in Hendrix Hudson's time Manhattan Island sold for \$20. It is also asserted that that \$20, maintained at compound interest from that date to the present time, would buy the entire island with all the buildings upon it.

I know, intimately, a merchant who has done a business in excess of \$400,000 per year for 25 years past. Instead of discounting his bills he has drawn money from his business from time to time, which he has invested in real estate and other outside matters. There never has been a time that the outside investments would sell for what they cost him. I estimate he has lost directly not less than \$16,000 per year in discounts during all the years he has been in business. During all that time he has been slow in his payments, and indirectly he has made an additional loss by having to pay long prices for his goods. The discounts of themselves would have made him rich. They would have aggregated some \$400,000. The merchant is still slow in his payments and is now looking for a partner.

Another element of danger to the retail merchant is drawing money from his business to build a store. I have known many a prosperous and successful merchant ruined by so doing—men who always had discounted their bills previously, but who were unable to do so after building a store. What cost them \$10,000, \$15,000 or \$20,000, oftentimes could not be sold for half what it cost. Very generally these merchants could rent a store for less than it cost them in interest, insurance and taxes to own it.

I would strongly recommend a retail merchant to remain in the old store, where he is doing well. I have known many to move into a new store with all modern conveniences, who found their expenses largely increased thereby and their sales actually diminished.

TEACHING WIVES BUSINESS.

By A. E. Rice.

Women are frequently ridiculed because of their awkwardness in business affairs. Why awkward? Simply because of their lack of opportunities to learn and transact business. Reverse the order of things; put men in charge of domestic affairs, and watch results. The ordinary man on duty about the house is an object of pity, to say the least.

But seriously, husbands, teach your wives some of the more important ways of

business. Let them become familiar with the details of your financial affairs. You don't know how soon they may be called upon to assist in settling your estate. Their time is already occupied with household cares. Just imagine, please, the burden they would be compelled to carry should your business affairs be suddenly thrust upon them. And then, too, suppose they had a limited knowledge of business and knew very little about your personal affairs. Past observation leads one to believe that they would be at the mercy of a selfish, greedy world!

Why not make the path straighter and smoother by beginning now to teach your wives practical business methods?

These remarks do not apply to all women, for many have decidedly better ideas of business than their husbands.

BUSINESS LETTERS.

Do not procrastinate in replying to business communications. Putting off till to-morrow the answering of a letter when it should be done to day, often means the putting it off for many days, or sometimes even forever.

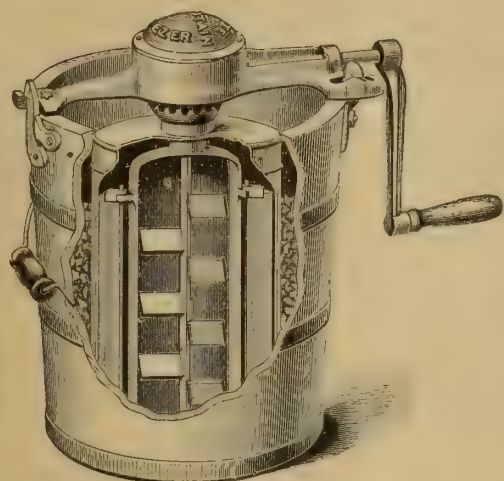
Slowness in answering letters means a shortcoming in a most important business essential. And, consequently, when a merchant becomes known for his deficiency in this respect a blot is necessarily cast upon his business reputation. No man can afford that.

Letter-writing, like every other part of a business, should be done systematically, especially in a concern where the expense of a typewriter cannot be afforded. And the time which the mails go out should largely determine the hour at which the work shall be done. This may necessitate two, three or even more stated times during the day when it will be necessary for the merchant to sit down to write or dictate his letters.

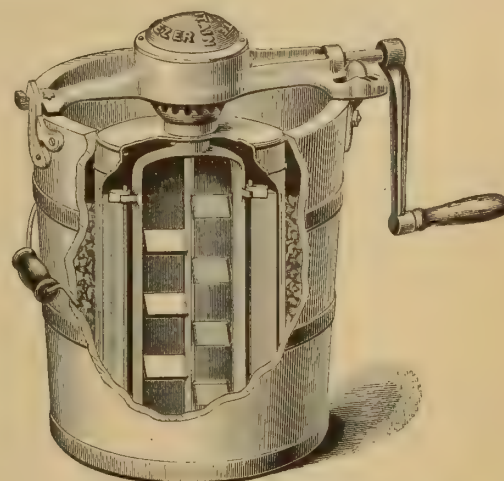
Besides being systematic in answering his letters, there should also be system in keeping those he receives which demand replies. In fact, unless there is system in this latter particular it will be difficult to have system in the other.

According to The Engineer there are in Great Britain 7,000,000 adult male persons from which trade unions can recruit their membership. Of these about 1,400,000 belong to the unions. Of the 1,000,000 women eligible for membership, 119,775 belong to the unions. The strength and vitality of the unions appear to be out of all proportion to the total number of persons eligible, and is a striking illustration of the time-honored maxim that in union there is strength.

THIRTY YEARS MAKING



ICE CREAM FREEZERS



AND NOTHING ELSE.

We study the **freezer business**, and have endeavored to manufacture an Ice Cream Freezer that would produce the largest possible quantity of the finest quality of Ice Cream, most economically with the least labor, in the shortest possible time, and the

White Mountain Freezer

IS THE RESULT.

This one subject we have conquered. The White Mountain Freezer of to-day is the best possible product of skilled workmen, fine materials, careful construction. The result of every resource that experience, and a splendid group of factories, can give, and is acknowledged everywhere to be the standard of excellence.

There is profit in them for the Dealer. Satisfaction for the User.

Sole Agents for the Dominion are . . .

THE MCCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line.

Manufactured Exclusively by

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

INTERESTING WORK ON FILES.

HARDWARE AND METAL has been permitted to make the following extracts from the forthcoming publication now in course of preparation by the Arcade File Works, Anderson, Ind., and No. 97 Chambers street, New York. It is written by Prof. W. H. Vandevort, the expert on technical mechanics, and under the name of "Practical Talks on File Work," will soon be issued in book form, to be distributed gratuitously among file

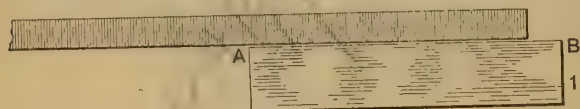


Fig. 7.

users and dealers, who have requested a copy from the above company.

ARTICLE III.

Ordinarily the surface of the work on which the file is to be used should be held at the height of the workman's elbow, thus allowing the direction of motion of his forearm to be in a line parallel with the plane of the work surface. This position of the work allows the workman's arm to swing freely at the shoulder with the least possible amount of motion at the wrist and elbow. If the work surface is broad it should be held somewhat lower than the elbow, thus enabling the workman to more easily reach over the entire surface. If, on the other hand, the work is of a fine nature, depending largely on the eye and a delicate touch, it should be held much higher. For work of this character the file is usually held in one hand and the high position of the work prevents the fatigue incident to a bent position over fine work.

For heavy cross-filing, which requires a considerable amount of pressure on the file, the workman should stand slightly back from the work, with one foot considerably in advance of the other. On the forward, or work stroke, the pressure exerted on the



Fig. 8.

file should relieve the weight on the forward foot, the rear foot bracing against the stroke. On the return stroke, the forward foot should again take its portion of the weight, and the file should be relieved from all pressure, but not raised from the surface of the work. Only at such times as it is necessary to examine the condition of the surface being operated upon should the file be taken from the work, its removal for cleaning, however, being excepted.

The workman's body should, in heavy cross-filing, move back and forward with the strokes, thus making the back and legs do a part of the work that would otherwise come entirely on the arms. When the work is of a lighter character and the quality of the finished surface rather than the quantity of metal removed must be considered, the workman should stand in an upright position, doing most of the work with his arms.

In cross-filing, and more especially where much metal is to be removed, the direction of the strokes should be varied frequently.

This not only enables the production of truer work, but faster reduction of the metal. The file when pushed endwise produces small grooves or channels in the direction of the stroke, and when the direction of the stroke is changed the file teeth come in contact with the tops of the ridges between the grooves, thus diminishing the area of tooth contact with the work surface, and consequently increasing the bite; that is, for equal pressures.

The selection of a good file for nice cross-filing is important, only a file with considerable belly being suitable. As most files are cut on tapered blanks they should have a uniform amount of curvature on each side. The process of tempering, however, frequently so distorts the tool that one side may be concave rather than convex. In choosing the file the workman sights his eye along its length and spots the high points with which he does the fine work. In Fig. 7 is shown a file having no belly applied to a flat piece of work. If a workman would move this file in an absolutely straight line, flat work would probably result, but as this is practically impossible, we must expect to find the work rounded at the edges A and B. If, however, the file shown in Fig. 8 is used, its belly will allow a slight variation from a straight line motion, and if carried completely across the work a straight surface will result. As only a comparatively small portion of the file's surface is suitable for this class of work, the mechanic should so plan that the balance will be worn out on round work in the lathe, draw-filing, narrow surfaces, etc.

In cross-filing, the file should be held at quite an angle with the direction of the stroke, which has the effect of giving the file a side motion as it is swept forward. This improves the condition of the surface filed, prevents, to a marked degree, deep groov-

ings, and brings the file under more perfect control.

When the surface is narrow and a large amount of metal is to be removed quickly, the angle at which the file is held may be changed, as shown in Fig. 9. As the contact area is small in this case, the bite is free. A new file should never be used for this purpose, as the teeth will take hold so freely that they will break off or, at least, lose their keen cutting edges very quickly. Work of this character should be held close down to the top of the vise jaws, thus preventing chattering.

THOS. DAVIDSON MANUFACTURING CO., LIMITED.

One of the greatest evidences of "Canada's growing time" is the marvelous development that the past few years have seen in the enameled ware industry.

Among the foremost in this line is the Thos. Davidson Manufacturing Co., Limited, Montreal, who, a little over five years ago; handled one line of enameled ware as jobbers. In the opening days of 1899 they issued a catalogue of over 325 pages, 40 pages of which are devoted to enameled ware alone; while in the front of catalogue,

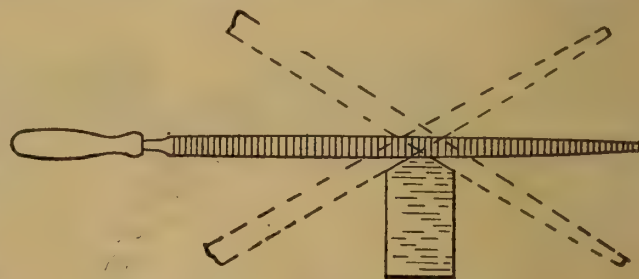


Fig. 9.

are seven lithographed plates, showing the seven different colors and lines they make.

"Crescent" steel agate ware, a dark grey mottle color, similar in quality to those lines which held the markets of the United States for nearly 30 years, was the first line made by the firm, and, while the other colors and fancy lines have been introduced, "Crescent" ware still retains its popularity.

On the pressing demand of the times for prompt shipments, extensive alterations to the warehouse and shipping-rooms have been made, with the aim to ship all orders the day they are received, to accomplish which, considering the large variety of lines carried, is no small undertaking. Offices and sample-rooms have also been finished on the most up-to-date plans, and are bright and commodious.

To the many who are interested in the hardware and metal trades, the firm extend a hearty invitation when visiting Montreal, whether upon business or pleasure bent, to visit them and inspect their goods and works.

The London Foundry Co.

Limited

LONDON, ONT.

We are the Largest Manufacturers in Canada



Steel Tray and Tubular Barrows
Railroad Wheelbarrows
Garden Wheelbarrows
Stove and Warehouse Trucks
Railroad and Steamboat Trucks
Cheese, Barrel and Bag Trucks
Hand Carts
Platform Factory Trucks and Wagons

Portable Forges of all kinds
Blacksmiths' Blowers
Tuyere Irons, Tire Benders and Upsetters
Horizontal and Upright Drills
Mandrells, Swage Blocks, etc.
Pressure Blowers and Fans
Washing Machines



Lard and Tallow Presses
Cider Mills
Print Butter Carriers
Butter Workers
Factory Churns
Lawn and Field Rollers
Hose Reels
Green Bone Grinders for Poultry Food
Little Giant Seed Sowers
Wagon Skeins and Boxes
Lane Barn Door Hangers and Tracks
Builders' Columns
Cresting, etc., etc.



FINE IRON CASTINGS A SPECIALTY.

COWAN & BRITTON

GANANOQUE, ONT.

Established 1861

Manufacturers . . .

Wrought Steel Butts
of every description.

Strap and Tee Hinges

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Hasps and Staples

Staples

Hooks and Staples

Nail Pullers, Tack Pullers

Nails, of every description.

Yard Measures

Electric Novelties

Goods Unsurpassed and
Prices the Lowest.

ORDERS SOLICITED

Theile & Quack's

German Hardware, Cutlery, Scissors,
Razors, Skates, & Hardware Specialties.



**Neumann Bros.' Shot Guns, Rifles
and Revolvers.**

The recognized leading
Belgian makers.

**Stacey Bros.' English Table and
Pocket Cutlery.**

**Hudson Knife Co.'s celebrated Pocket
Cutlery, Scissors and Razors.**

**American Safety Razors, Raisin
Seeders, and Hardware Notions.**

Enquiries solicited from the jobbing trade only.

LAMPLOUGH & McNAUGHTON,

59 St. Sulpice St.,

MONTREAL.

A BRIEF HISTORY OF ENAMEL WARE.

BY OMAR.



It is a century since the process of enameling vessels of iron is supposed to have begun. The enameling of other materials, such as crockery, for instance, is, of course, much more ancient.

Some authorities claim that the first reference to enameling is to be found in the Book of Ezekiel. But, whether they be correct or not, it is known that the ancient Persians and the Arabians practised it upon tinware and porcelain. The Romans introduced enameling into Great Britain.

The first iron vessels upon which enameling was practised were those of cast iron. This was at the close of the last century, a Dr. Hickling being credited with having introduced it in 1799. Since then various patents have been granted. In 1850 a patent was granted to a man named Charles Henry Paris, and the process which he appears to have invented was largely used in Birmingham, England. In 1871 a patent was granted a Mr. Nelson, of Glasgow, for enameling large metal objects, to which the process had not been previously applied.

The liability of iron to oxidation by heat or moisture, and to corrosion even by the weakest acids, has led to many attempts to coat it with a protecting surface. Ordinary tinplate is the oldest and most familiar example of a partially successful method of enameling. And since Dr. Hickling began, 100 years ago, many are the attempts which have been made to cover iron with the desired vitreous surface.

The chief difficulty in applying enamels to iron arises from the tendency of the metal to oxidize before it reaches the temperature at which the enamel fuses, and to become brittle from the oxide combining with the silica of the enamel.

The thinner the iron the more difficult the process of enameling it. It is, therefore, easily understood why the enameling of cast iron was possible so many years before the attempts upon sheet iron or sheet steel became successful.

The enamels used for the coating of iron consist of a silica and borax with various basic substances such as soda, oxide of tin, alumina, oxide of lead, etc.

The enamel composition used by Paris, who, as already stated, was granted a patent in 1850, consisted of about 130 parts of cullet or broken glass, 20 $\frac{1}{2}$ parts of carbonate of sodium, and 12 parts of boracic acid. The composition used by another English manufacturer, whose goods are still

known, is as follows: 100 lb. of calcined ground flints and 50 lb. of borax, calcined and finely ground, to be mixed, fused, and gradually cooled. Of this, 40 lb. are mixed with potters' clay and ground in clay to a pasty mass. The composition is then, to about the thickness of one-sixth of an inch, spread over the vessel to be enameled, which is then placed in a warm room to dry. A new coating is next added, prepared with 125 lb. of white glass without lead, 25 lb. of borax, 20 lb. of soda in crystals which have been pulverized and fused together, ground, cooled in water, and dried. To 45 lb. of this 1 lb. of soda is added, the whole mixed with hot water and pounded. A portion is sifted over the other coating while it is still moist, and dried in a stove at the temperature of boiling water. The vessel is then heated in a stove till the glaze fuses. It is taken out and powdered, is again dusted on the glaze already in fusion and it is again subjected to heat.

The vessels under to-day's process of enameling are made of sheet steel and pressed into the desired shape by powerful machinery, machinery which one would think would be more likely to tear the sheets into pieces rather than turn them into pails, dishes, cups, sinks and the almost hundred and one different styles and shapes of utensils now so generally used in the household.

After coming from the pressing machines the vessels are given a bath of dilute sulphuric acid, for the purpose of cleaning them preparatory to receiving their enamel coating.

According to the process in vogue in Canada, and it is probably the same as that practised in other countries where enamel ware is made, the first coating of enamel is blue black in color. In fact, some of the very cheapest kind of ware, particularly crocks, get no other coating on the outside. As a rule, however, enamel ware carries three coats, and not infrequently four. As each coat is put on the vessels are placed on a carriage and run into the oven, or, to use the technical name, the muffle, to come out again red hot.

The muffle is a brick structure something after the style of an annealing oven. To each muffle there is a large door which opens automatically as the carriage which contains the vessels to be baked approaches. Attached to the carriage is a handle several yards in length, for the muffle is, indeed, a fiery furnace, which, when the doorway is open, it is well to keep a distance away from.

The mottled appearance which so much enamel ware has is obtained by splashing the color upon the vessels, these colors, which are mineral, assimilating after being

placed in the muffle. The various pretty designs of flowers, birds and scenery which adorn the decorated enamel ware are painted by hand upon the vessels after the enameling process has been completed. When the paint is dry the vessels are treated to the coat of glazing and again given a warming up in the muffle.

The fuel used for heating the muffles is crude petroleum, hence the concern of the enamel ware manufacturers at the action of the Standard Oil Trust, which has now control of the Canadian wells, in reducing both the quality of the crude oil and the quantity which it was willing to supply as fuel.

In Canada the enamel ware industry is only five or six years old; but it now practically supplies the home market, although it has not been without much labor and many discouragements, particularly during the first few years, that this position has been attained. Fortunately, those who embarked in the industry were men who were not to be daunted by difficulties, for they persevered until they were successful. And Canada, to-day, turns out enamel ware which is, on the whole, equal to that made in any other country.

There are three firms in the Dominion engaged in the manufacture of enamel ware, and they are all large ones, namely, the Kemp Manufacturing Co., of Toronto; the McClary Manufacturing Co., Limited, of London, and the Thomas Davidson Manufacturing Co., Limited, of Montreal.

It was not until 1895 that enamel ware appeared in the trade returns under a separate classification, and the imports and the countries from which we imported, according to the figures of that and the following two years, were as follows:

	1895.	1896.	1897.
Great Britain....	\$ 7,356	\$ 5,684	\$ 4,358
Belgium .....	.....	5	.....
France.....	6,688	2,770	530
Germany.....	62,586	44,776	9,446
Holland	228	.....	.....
Japan.....	49	.....	.....
Switzerland .....	.....	10	.....
United States....	51,143	35,290	39,272
	\$128,050	\$83,535	\$53,606

From this table, it will be at once gathered that the home market for enamel ware is gradually being supplied by the home manufacturer, for, while the imports are decreasing, the use of this ware is gradually increasing in this country.

The decrease in the total imports, from 1895 to 1897, was over 58 per cent., while the decreases, during the same period, from the three principal countries interested were: Great Britain, 40 per cent.; Germany, nearly 85 per cent., and the United States, over 23 per cent.

Enamel ware manufacturing has evidently become one of Canada's staple industries, and that after only about half a decade's experience.

Windsor,



Ontario.

A Thoroughly Up-to-date Factory.

We are manufacturers of all kinds of **PAINTS** and **VARNISHES**. We solicit communication and sample orders.

Our ...
Specialties

Liquid Prepared House Paints.
Floor Paints and Carriage Paints.
Coach, Car and Body Colors.
Oil and Varnish Stains.
Air Drying and Baking Enamels.
Paste and Liquid Wood Fillers.
Roof and Barn Paints.
Iron Brown Freight Car Paste and Liquid Paints.
Oil Colors and Dipping Paints.

We make . . . { All grades of fine Coach and Carriage Varnishes,
Hard Oil Finishes and Liquid Dryers.

"ARE SOLE AGENTS FOR FRONTIER IRON BROWN OXIDE,"

STANDARD PAINT & VARNISH WORKS, Limited, Windsor, Ont.

TRULY WONDERFUL

WEATHER-PROOF

A substitute for
Oil Paint,
and
Whitewash.



Fire-proof and
Weather-Proof.
An excellent
Disinfectant.

COLD WATER PAINT

A white powder that mixes readily with cold water.
Can be applied by **ANYONE** to **ANY KIND** of surface, with any kind of brush.
Produces a hard and flexible enamel finish.
CANNOT BE WASHED OFF.
WILL STAND RAIN AND WEATHER EXPOSURE.
Has nearly all the advantages of oil paint, **AT A FRACTION OF THE COST.**
Furnished in pure white and many colors.
Does not set.

Everybody and anybody can use it, and its field is unlimited.
Will last for years and is unaffected by gases.
One coat covers better than **TWO COATS OF OIL PAINT** or whitewash.
It will not rub, scale or crack, nor will it soften with age or moisture, nor discolor.
Supplied in **50, 100, 200 and 400-LB. BARRELS.**
NOTHING LIKE IT.
About five pounds dry powder will make a gallon of paint.

We also supply the same paint **ESPECIALLY PREPARED** for **PLASTERED WALLS ONLY**, in **WHITE** and **TINTS**, under the name of "**GUARANTEE WALL COATING.**"

DELORME BROS., General Agents, **15 DeBresoles St., Montreal**

CLERKS AS COMMERCIAL TRAVELERS.

AN INTERVIEW BY OMAR.

DURING a conversation I had the other day with a traveler, who, although yet comparatively young, has had several years' experience, I ventured to ask him what, in his opinion, constituted a good commercial traveler.

"You might put it this way," he said, "What inducement is there for a young man to go on the road?"

"Just as you say," I meekly observed, "I'm not particular how the question is put, as long as you give me an answer."

"Well," he continued, "I would say that the greatest inducement for a young man to go on the road is the financial one. More money is made in traveling than in any other department of business. The next, I would say, is the round of experience he gets. The different business methods with which he comes in contact, the different kinds of people he has to handle are of great value to a man who purposes following a mercantile career.

"A man to be adapted to the road, must be capable and able to fully appreciate the position in which he will from time to time be necessarily placed. He must have such a grasp of prices that he will be able to take advantage of them on the smallest notice.

"He must have a thorough knowledge of human nature, in order that he may be in a position at all times to cope with the peculiarities of his various customers.

"He must be a man of tireless energy, and honest and straightforward, in order that he may gain and retain the confidence of the people upon whom he calls. It is of great advantage to a traveler, I can tell you, when his customers place implicit confidence in his opinions and suggestions in regard to the goods he carries."

"What advice would you tender to a young man who desires to become a commercial traveler?" I ventured.

"Before starting out I would advise him to become thoroughly posted in the business in which he is engaged. In other words, let him acquire a knowledge of the goods, their character and their mode of manufacture. When the young traveler starts out, I would advise him, when showing his wares, to keep his eyes and ears open and his mouth shut as tight as possible, for the average retailer coming into closer contact with the consumer, as a rule, knows best what will take on the market. Then, by listening to the opinions of the various customers, he will be

in a better position to arrive at an intelligent conclusion himself, particularly in regard to improvements in this or that article in his samples whereby it may be made more saleable."

"Would you advise clerks in retail stores to aim to become travelers?"

"Certainly. Clerks in retail stores make better travelers than clerks in wholesale houses, because clerks in retail stores come into contact with consumers, and, consequently, acquire a knowledge of their wants, as well as those of the retailer. The traveler who has a knowledge of the retail business can, it stands to reason, be of more assistance to a retail merchant in making selections of goods than he whose experience has been wholly in the wholesale house.

"Again, he who has been a clerk in a retail store, and subsequently puts in some years as a successful traveler, is better qualified ultimately to become a successful business man than he who has had no experience as a traveler. Furthermore, the most valuable man, and the man most difficult to replace around a wholesale warehouse, is, as a rule, a good traveler."

"You have been talking about the advantages which accrue to the traveler. What about the disadvantages?"

"Well, a man who goes upon the road is compelled to sacrifice home comforts. Then he has to break all social ties outside of the passing acquaintances which he forms on the road and the friendships he creates through business engagements. He has no other friends. He suffers all kinds of hardships, experiences the greatest changes in climate, travels in freight cars as well as in palace cars, drives in rain as well as in sunshine. Then the variety of food which he partakes of ranges from the sublime to the ridiculous. Between the wholesaler and the retailer he is the go-between, and has to take abuse from both."

"How do you think a traveler should be paid?" I queried. "Should he have a salary or commission or both?"

"That is a vexed question," he replied, as he meditatively scratched his head. "Bear this in mind, travelers are paid according to the amount of their sales. If they were paid for the work they do their salaries would require to be double what they are now. What they do in missionary work, in looking for business and keeping it takes up a great deal more of their time

than the actual selling of goods. To pay them all by commission on both personally solicited sales and letter orders is generally the most profitable to the traveler. But sometimes salary and commission are paid. Either all salary or all commission is the method of remuneration most desirable."

"What should the attitude of the retailer toward the traveler be?"

"Well, I know this: It pays the retailer to court the friendship of the traveler at all times. Let him treat him as a friend, and accord him as good treatment as he would the most profitable customer. A traveler appreciates kindness as quickly, if not more quickly, than any man in business, for the simple reason that he gets only a very moderate share of it."

"There is no one who learns to read a merchant or becomes acquainted with his peculiarities more quickly than a traveler, and where once it is known that a merchant's 'No' is final very little difficulty is experienced in disposing of travelers, for travelers are no more willing to waste time than anybody else. Of course, the novice, in his eagerness to do business, sometimes makes himself obnoxious, but he either soon learns his lesson or his place is filled by another.

"Merchants, as a general rule, are to blame for the time lost in interviewing travelers. Were they, for instance, to adopt some system whereby they could tell in a moment what goods they require, they would not only effect a great saving in their own time, but in that of the traveler as well. I have a few customers who have got their system so complete that my business with them is, as a rule, done in a minute or two. And they are not, by any means, small customers, either. It is a pleasure to do business with such men.

"There are some dealers who, on seeing a traveler come in at the front, will dodge out of the back door, or, by pleading they are too busy, will endeavor to sidetrack the traveler. This is a silly practice, and wastes the time of the merchant as well as that of the traveler.

"It is to the advantage of the merchant to treat the traveler properly, as he who does so is the first to hear of any snaps that may be going, and he is likewise the first to whom any new ideas are suggested. Furthermore, in the event of financial difficulty, the manner in which the traveler has been treated often determines the proportion of leniency that may be meted out to the merchant seeking it."

It evidently dawned upon the traveler that he was giving me too much of his time, for he suddenly stopped talking, looked at his watch, and, with a "good-bye," hurriedly took his departure.

J. H. HANSON

422 St. Paul Street,

...Montreal

Representing:

WM. BUCK CO., Limited

Stoves and Furnaces.

The B. GREENING WIRE CO., Limited

Wire Goods of every description.

E. T. WRIGHT,

Bird Cages, Lanterns, Stove Pipes,
Elbows, and general line of Tinware.

Correspondence Solicited.

ALSO MANUFACTURER OF

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Catalogue on Application.

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MANUFACTURERS
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Cooking Apparatus and Utensils

for Hotels, Restaurants, Institutions and Steamships.

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Horse Covers, Dunnage Bags, etc.
The Improved Flexible Waterproof.

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Awnings, Tents, Etc.

RELIABLE GOODS.

The Moorhouse Mfg. Co. of Guelph.

ESTABLISHED OVER A CENTURY.

GEORGE JOHNSON & CO.,



**Cutlery and Razor
Manufacturers**

CORPORATE MARK

Granted 1835.

N.S. and E.P. Spoons and Forks,
Fish Eaters and Carvers.

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Granted 1698.

Makers of the Celebrated "Seven Stars" Razors

In great variety, with either Flat or Hollow-Ground
Blades. Made from highly refined steel.

29 NORFOLK LANE = SHEFFIELD

Webb & Co.

LONGTON,

Staffordshire Potteries, England

Have always on hand a
large stock of

Stone China, Earthenware and China

in Best, Seconds, and Thirds.

Illustrated Price Lists free on application.

Buy direct and save 25%.

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T. G. Rice Wire Mfg. Co.

OF TORONTO, LIMITED

Manufacturers of

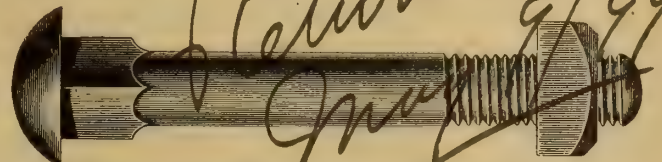
**BRASS, COPPER, GALVANIZED AND
IRON WIRE CLOTH.**

Bank Railing, Grille Work and Mining Wire
Cloth a Specialty.

Bird Cages, Window Guards, Cemetery Railing,
Fencing, Flower Stands, Baskets and Trainers,
Coat and Sand Screens, Mantle Stands, Riddles,
Sieves, Fenders, Fire Guards, Wire Rope,
Wire Cloth for Locomotives, Threshing Machines,
Fanning and Smut Mills, etc.

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TORONTO



BOLTS NUTS, HINGES,
COACH SCREWS,
. . . Etc.

London Bolt & Hinge Works

LONDON, ONT.



Agents for
**Palmer's Celebrated
Arawana and Per-
fection Hammocks.**

Address...
John Allan, Paris, Ont.

Best values in Open, Canvas and Twill Weave Hammocks.
Address for Prices, Box A, PARIS, ONT.

TORONTO SILVER PLATE CO.

THE Banker, Merchant and Manufacturer, of Chicago, recently contained the following reference to The Toronto Silver Plate Co., Limited: "It is not everybody who can afford to possess articles of solid gold and silver, though these are no doubt desirable, and people of artistic and aesthetic tastes set great store by them. But if solid gold and silver be inaccessible, plated ware is within the reach of all. This is not only just the same in appearance, but, it is asserted by credible authorities, much more durable and serviceable. On this account the manufacture of plated ware is an industry of no small scope and importance. Among those engaged in this industry in Toronto, a leading place must be awarded to The Toronto Silver Plate Co., Limited.

"As the name would imply, this house makes solid silver plate, and, indeed, it is one of the foremost houses in this line in the country, its sterling silver productions being in very general demand. These include everything, from a \$1,000 tea service down to the smallest piece of a manicure or toilet set. Nor are they behindhand in the manufacture of electroplated ware, of which they make a very complete line, consisting of both hollow and flat ware and all manner of fancy articles and toilet goods, lamps, candelabra, epergnes, etc. They make a specialty of goods for hotel, steamboat and club use, and, in fact, most of the leading hotels, clubs and steamships of Canada have been furnished by them. They also manufacture a full line of prize cups, trophies and medals, in appropriate designs, employing a large force of artistic designers, competent to originate plans of the most beautiful and ornate character. If required, they are prepared to manufacture anything in this line of goods from particular designs already selected, doing the work to order in the promptest and most satisfactory manner. Having the fullest equipment of the most modern tools and machinery they do the finest variety of work, and can safely challenge competition with any other house in the same line of business. The large factory on King street west is of the most modern kind, fully abreast of the times in all its appointments. Their staff of workmen (numbering over 100 in all), consist of experienced men of the highest skill.

"The house was incorporated in 1882, with a capital of \$100,000. It is a strictly Canadian company, employing Canadian capital and labor, and is in no way connected with the Silverware Trust, or with any silverware association or combine. The following gentlemen are the officers and directors of the company: W. H. Beatty, president; Alfred Gooderham, vice-president; George Gooderham, W. H. Partridge,

E. G. Gooderham, W. T. Kiely, William Thompson, James Webster, Frank Turner, C. E. Mr. Edward G. Gooderham, manager, secretary and treasurer, has been in charge of the company's business since 1885, and it is mainly owing to his energy and business ability that the house does such a prosperous business. In fact, it is sometimes called the Gooderham company, so well is its manager known to the trade, and so much Gooderham money is invested in it. The aggregate wealth of the directors amounts to some \$20,000,000. The trade of the house extends to every part of the Dominion, and there is also a large export business, the demand, in both cases, being steadily and constantly on the increase."

WILL PLATED WARE ADVANCE?

FROM managers of some of the plate companies it is learned that unless the base metal, viz., tin, antimony, copper, and nickel, declines materially in price that it will be imperative in the very near future to generally advance all prices, probably 10 per cent., that the selling prices for the last several years, on account of exceptionally keen competition, have been figured at a very small margin of profit on the ruling low price for material, and, now, that the prices for same have advanced so considerably, it is only consistent that prices for plated ware should be in sympathy.

To give some idea of the marked difference in the value of material, one of the gentlemen quoted figures which showed an advance in raw materials of from 25 to 90 per cent. compared with the same time last year.

On being asked if the contemplated advance was made, when it would take place, the reply was: "That is of course an open question. It should, however, be practically at once, as stocks with the manufacturer are now at the lowest ebb, and all material used has been bought at the advanced prices."

It may be noted that a great number of the American manufacturers have already advanced their prices 10 per cent.

Among those interviewed was Manager Gooderham, of The Toronto Silver Plate Co., Limited. One of the questions asked that gentleman was to this effect: "Mr. Gooderham, it is rumored your company has joined the Silverware Trust, is this correct?"

His reply was: "No, we are perfectly independent of any outside interest."

The International Silverware Co., commonly known as the silverware combination, advanced its prices some weeks ago on flat ware, and one of the officers of the concern stated that the advance was unusual for this time of the year, but there was no other alternative, owing to the increased cost of raw material.

ABOUT HORSE BITS.

We may take it for granted that in pre-historic times "the connecting link" was hacked about with a raw-hide bridle in place of the now popular solo bit, says the writer of an illustrated article in Bailey's Magazine. But there were evidently disadvantages in riding with a rudimentary halter, because our forefathers subsequently adopted wooden and horn snaffles, and later on added sides or "cheeks" to them. There was no further improvement for many centuries, until the iron period, when the snaffle obtained a higher degree of perfection.

So far as we can gather from historians, the ancient Romans were the first to introduce the principle of the "lever" or curb; it is humiliating to find that we have made hardly any advance in effective snaffles during the last thousand years. Dates are dangerous things to quote in connection with this interesting subject, for the evidence of the recognized authorities is conflicting. In order, therefore, to be on the safe side, let us state that horses were bitted in Egypt certainly 1,500 to 2,000 years before Christ, and probably much earlier.

A very curious wooden mouthpiece, shaped like a badly-drawn horse, and believed to have been made about 1,000 B.C., was found in Germany not long ago. Then, again, in the horn and bronze period—according to old records—a primitive half-twist-barmouth-turn-cheek-pelham came into vogue; of course, the original makers did not call it by that name, but it was one all the same. Virgil mentions a Roman bit, which was termed in his time *lupatus*, on account of its jagged structure.

Berenger, in his "History and Art of Horsemanship" (1776), gives the figure of a bit which was found in a large barrow called Silbury Hill, which stands near the road from Bath to London. The mouthpiece is not unlike that of a modern snaffle: the cheek pieces are peculiar, and would not serve to carry a curb chain. This bit is supposed to be either Roman or early British. All bits, practically speaking, come under the heading of either curbs or snaffles, excepting those which partake of the character of both.

In the fourteenth century the long lever bits had formidable spikes attached to them, so that a rider's enemy might not attempt to arrest his progress by catching hold of the charger's mouthpiece. The sixteenth century was responsible for chain snaffles, which restrained hard pullers; and, in a curious little black letter volume published 1566, we find numerous plates showing curb bits more or less severe, and more or less ornamental. These resemble the handsome cavalry bits of the present day.

**This is not a Bicycle, it
is better, it is a**

TWO-WHEELED PATENTED

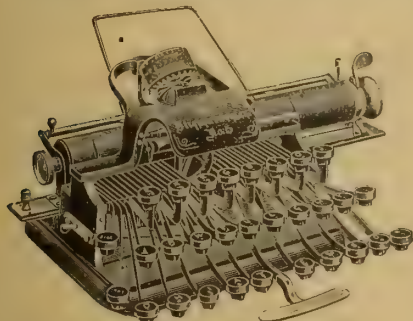
Double-Load-Barrow

How Natural it Looks!

IT DOES THE WORK, YOU BOSS THE JOB.
WE KNOW A GOOD THING

WHEN WE SEE IT.

The Blick No. 5 Type-writer.

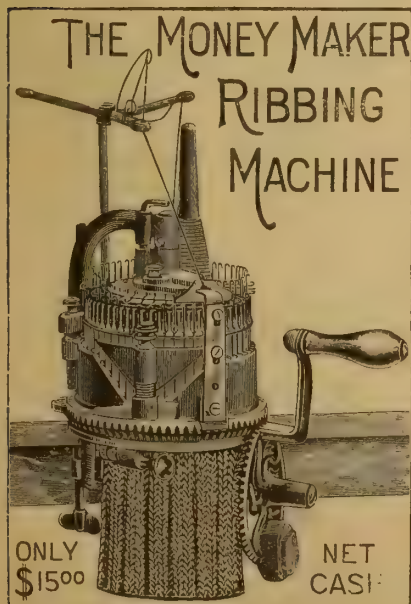


PRICE ONLY \$35.00

THE ADVANTAGES ARE :

Every pound of weight is taken off the arms and back.
Every pound of weight is carried by the two wheels.
Gravity carries it down the hill, you follow, rest and laugh at hard work.
Your strength is reserved for filling and pushing load.
You can do double work, whistle and sing as a youth at play.

"IT GOES"—"ON WHEELS" AGENTS WANTED.



ONLY
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U GET
DOUBLE WORK
DOUBLE PROFIT
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SAME PRICE.



MOVING A 1,000-lb. KLONDYKE NUGGET.

IT CARRIES ALL THE LOAD,
MAKING WORK LIKE PLAY.
AT HARD WORK YOU LAUGH,
WITH DOUBLE WORK AND PAY.

all done 1.30/3/90
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TORONGCO

**Hand and Power Knitting Machines.
Two-Wheeled Barrows.
Type-writers.**

WRITE, AND
MENTION THIS PAPER.

CREELMAN BROS.

GEORGETOWN, ONT.

Do You Sell Horse-Nails ?

If so—you will be interested in knowing which is the best for you to sell ?

We think the “**C**” brand made by our company since 1865 is the best, and we ask your consideration of the following reasons for our making this claim :

First: The material of which they are made. It is the best obtainable—Swedish charcoal steel nail rods—made especially to our order, for our work, and imported direct by us from Sweden. We unhesitatingly affirm that there is no better material used by any manufacturer of horse-nails in the world for this purpose.

Second: The process of manufacture. We forge the nails to the desired pattern from the nail rods while they are at a white heat, and therefore in a malleable condition. This process thoroughly hammers and consolidates the nail, making it tough and enduring: no other method will do this as satisfactorily.

After forging, there are several special processes for polishing, rolling, pointing and finishing the nails: our methods differ from those used elsewhere in Canada, and, we are satisfied, with much better results.

When the nails are finished they are subjected to a final, careful examination and sorting by hand, so as to prevent a single imperfect nail being found in a box bearing our “**C**” brand.

We guarantee to the purchaser that every box of horse-nails bearing our name and trade mark is perfect, and ready for immediate use. They may be returned or replaced at our expense if found otherwise.

The dealer who wishes to secure the farrier trade, can do so only by selling the best horse-nails—the “**C**” brand.

We ask those dealers who wish to try or favour us with their orders, either direct, or through any wholesale merchant, to be particular and specify for the “**C**” brand made by the

CANADA HORSE NAIL COMPANY
MONTREAL

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, March 24, 1899.

HARDWARE.

THE heavy snowfall having blocked the country roads, has interfered somewhat with the actual daily movement this week. In fact the current daily turnover during the next ten days is apt to be smaller, as buyers are ordering supplies to be held pending the reduction in railway rates to the spring basis, which is expected to take effect on the first of April. Orders for forward delivery, however, are quite numerous, and the tendency of values is distinctly steady. There has been no further change in general hardware during the week, but barbed wire, plain wire, staples, wire nails, cut nails, in fact all kinds of material are firm.

BARBED WIRE—This material is firm at the rise, and there is a good trade doing in a small way. The base price is \$2.70 f.o.b. here.

PLAIN WIRE—No further change is noted in plain wire, and demand is only moderate.

We quote the base price at \$2.35 to \$2.40 f.o.b. here.

FINE STEEL WIRE—Quiet but firm. We quote as follows: No. 17, \$5; No. 18, \$5.30; No. 19, 6.30; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17, with 25 per cent. discount off this list.

BRASS AND COPPER WIRE—Steady and unchanged.

STAPLES—A moderate inquiry is experienced for fence staples. We quote galvanized fence staples at \$2.75 per keg of 100 lb. Cooper and poultry netting do. 15 per cent., and electrical, broom and bed, etc., 10 per cent. discount off regular list.

WIRE NAILS—There has been no further change in these. Demand is fair at the advance noted last week, and we quote the base price \$2.45 to \$2.55, as to quantity.

CUT NAILS—The demand for cut nails is improving. Prices are firm at the rise, the base price being \$1.85 per keg. Flour barrel

nails 40 per cent. and coopers' nails 50 per cent. off list.

ESCUTCHEON PINS—Unchanged; brass 60 per cent. and steel 45 per cent. discount.

BOAT NAILS—As last quoted; black and galvanized 40 per cent.

GALVANIZED ROOFING NAILS—Steady at 8c. per lb., with 25 per cent. discount.

PRESSED SPIKES—Quiet at 40 per cent. discount.

HORSESHOES—Without activity. We quote as follows: Iron horseshoes, light and medium pattern, \$3.15; snow shoes, \$3.40; XL steel shoes, new light pattern, all sizes, 1 to 5, \$3.35; featherweight, all sizes, Nos. 0 to 4, \$4.30; and toe weight steel shoes, all forward, \$5.50.

HORSE NAILS—Quiet and steady as follows: Standard brands countersunk, 50 per cent., and Acadian 50 and 20 per cent. f.o.b. here.

TACKS—Unchanged: carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 50 per cent. off; tinned do., \$6 per gross with same discount.

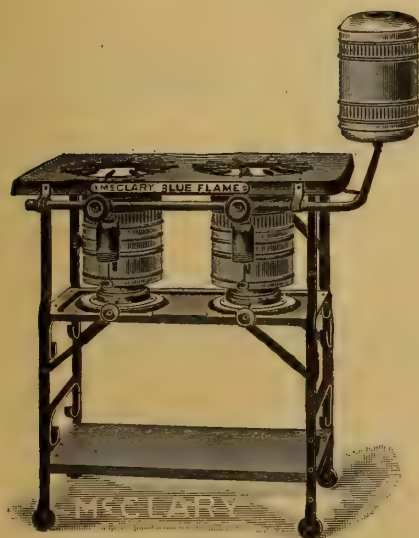
DOUBLE-POINTED TACKS—Firm at the

Wickless BLUE FLAME Oil Stoves BURN COAL OIL

DESCRIPTION.—They have no wick, and are thus easily kept clean.

The Oil Tank is made of polished brass and is placed at the back of stove, away from any heat. It is of a telescopic pattern, and has an automatic valve which admits only the required amount of oil to the stove at a time. The removable inner tank can be carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.

carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.



NO. 04—2 BURNERS, HIGH FRAME.
Mounted on Casters.

Height, 27 inches. Size of top, 17x25 inches. Weight, crated, 40 pounds.

The Valves are of a material that cannot corrode, thus insuring permanent control of the stove.

Our Patent Sight Feed is a revelation, being a wonderfully simple arrangement for measuring and supplying just sufficient oil to suit the user. It always has in readiness, just enough oil (by measure) to start the burner.

To Light the Stove—Open the small valve below the sight feed to let the measured oil into the burner; then close it, light the burner, and at the same time turn on whatever amount of oil you wish. The stove is instantly started and no further attention is necessary.

The Oil thus started, burns with a clear blue flame, without smoke, and gives a heat of the greatest intensity.

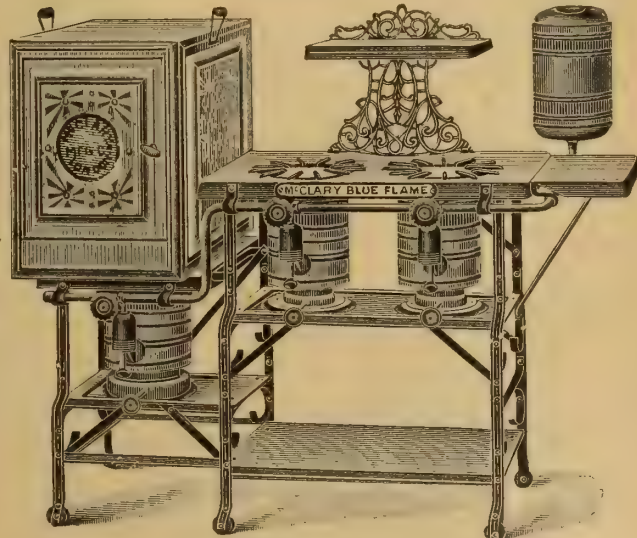
The Steel Frame is strong, and is handsomely striped with gold.

It Makes No Difference whether the oil is good or bad, heavy or light, thick or thin, hot or cold, the stove works equally well, producing an intensely hot, smokeless, blue flame.

Turn on the Oil. Touch a Match.
The Burner Does the Rest.
Cooks Instantly. No Delays.

Special list on application.

When you want your goods quickly, order from McClarys.



NO. 06—3 BURNERS, WITH STEP.
Mounted on Casters.

With Ornamental Back Shelf and Broad End Shelf.
13-inch burner under step.

Height, 27 inches. Size of top, 17x25 inches. Size of step, 14½x17 inches. Weight crated, 65 pounds.

THE McCLARY MFG. CO.

LONDON

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WINNIPEG

VANCOUVER.



First-class plain work can be done with the common galvanized irons; not difficult work.

But it costs more money.

Apollo Iron and Steel Company
Pittsburgh

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

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31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Limited
Manufacturers of

CHARCOAL Pig IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

rise: In dozens, 85 and 30 per cent.; in bulk, 10 per cent. off list.

SCREWS—In good inquiry and values steady. Discounts are as follows: Flat head bright, 85; round head do., 77½; flat head, brass, 77½; round head, brass, 70. Machine screws, iron and brass, flat head, discount 20 per cent.; round head, 15 per cent.

BOLTS—There is a fairly active inquiry. Discounts are: Carriage bolts, 5-16, and under are now 60 and 15 per cent. off list; ¾ and larger, 62½. Machine bolts, all sizes are 60 and 15; coach screws, 75 and 10, and sleighshoe bolts, 80 per cent. off list.

RIVETS—Without change. Discounts, 65 per cent. on black and tinned, and 37½ on copper rivets.

CORDAGE—Outside advices continue to report marked strength in rope, but the fact fails to exert any influence on local prices, which are unchanged. We quote as follows: sisal, 9¼ to 9¾c. for 7-16 and upwards, and manila, 10¼ to 10¾c.; smaller sizes, 1c. advance on these figures.

MISCELLANEOUS WIRE NAILS—Steady at the rise, discounts being 75 per cent.

HINGES—There is a good inquiry for these. We quote: Heavy T and strap, \$4, and light ditto, 70 and 5 off the list.

SHOT—Strong; 6c. for ordinary, and 6½c. for chilled.

CUTLERY—Continues the same as last reported.

CEMENT—Quiet, and prices are largely nominal. We quote: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Continue steady, at \$18.50 to \$24.

METALS.

The strong feeling in heavy iron is maintained, and with further gains this week in all leading lines at leading centres in the United States. In the metals, however, copper and tin have been rather easier, but lead and spelter have exhibited a firmer tendency abroad.

PIG IRON—As a consequence of further advances of 50c. to over \$1 per ton in pig iron in the United States, prices here are stiffer, both for Scotch and domestic brands. No. 1 Summerlee has sold up to \$21.50, and there is very little stock to trade in. In domestic pig offers of \$16.50 were refused this week for small lots, holders asking \$17.

BAR IRON—There has been more inquiry for bar iron, and in a jobbing way, values are firmly held at \$1.55 to \$1.60, though round lots are still obtainable for less money.

HOOP IRON—The tendency outside is strongly upward on this material, and new

**Ingot Tin
Copper
Spelter
Pig Lead**

Close prices on carload lots.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.
Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

supplies are costing 75c. per 100 lb. more than they did at the first of the year. We quote the base price stiff at \$2.45.

SHEET IRON—Firm, as follows: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Without change. We quote: 10 to 16, \$2.60; 18 to 20, \$2.40; 22 to 24, \$2.45; 26, \$2.65; and 28, \$2.70.

HEAVY STEEL—The tendency is upward, and further advances are noted this week. Sleighshoe and tire steel is 15c. higher, the base now being \$2, while machinery steel is firm at \$2.25 base.

GALVANIZED IRON—Inquiry for this material is quite brisk, and values are very firm. We quote: No. 28 "Queen's Head," \$4.35 to \$4.60, and "Comet" \$4.10 to \$4.35.

INGOT COPPER—This metal has declined still further, both in London and New York, and on spot there has been some modification in prices, as 18c. was accepted this week, and we quote 18 to 18½c.

SHEET COPPER—Without change. Plain, 25c., and tinned, 27c.

INGOT TIN—Tin has declined outside, and prices here have been shaded a trifle, as 26c. is now the inside price here for jobbing business.

PIG LEAD—This metal has been firmer outside, but spot prices are unaltered at 4½ to 4¾c.

LEAD PIPE—Firm, and fairly active. Ordinary, 7c., and composition waste 7½c., with discount 17½ per cent.

IRON PIPE—Good demand at the rise. We quote as follows: Black pipe, ¼-inch, \$2.90; ¾-inch, \$2.90; 1½-inch, \$2.75; ¾-inch, \$3.10; 1-inch, \$4.40; 1¼-inch, \$5.90; 1½-inch \$7.15, and 2-inch, \$9.70. Galvanized pipe, ¾-inch, \$5.55; 1½-inch, \$5.90; ¾-inch, \$6.55; 1-inch, \$8.95; 1¼-inch, \$12.40; 1½-inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATES—These are firmer, and demand is active. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—In good demand, and firm. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Active and firm at \$6.25 per 100 lb.

COIL CHAIN—Steady. We quote: No. 6, 9¾c.; No. 5, 8¾c.; No. 4, 7½c., and No. 3, 6½c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ¾, \$3.25; ¾, \$3.15, and ¾, \$3.00 per 100 lb.

SHEET ZINC—With light stocks, prices are firm at 8 to 8¾c.

ANTIMONY—Unchanged at 10 to 11c.

SPELTER—Firm outside, but unaltered here at \$6.75 for V.M., and \$6.50 for S.S.

GLASS.

There is a fair demand for window glass and values are firm. We quote as follow: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth,

\$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The weather conditions have not been at all favorable for the past week, and business has been somewhat quiet, although there is still a fair amount of business booked waiting the advent of spring freight rates, which are expected to take effect after next week. Prices, generally, are unsatisfactory, in view of present high prices of materials, and, if the volume is maintained, we will not be surprised to hear of higher prices, especially in general mixed colors, paints and varnishes. Scarcity of turpentine continues, but we have no change to report.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½c.; in oil, pure, 8c.; No. 1, 6½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 49c.; boiled, 52c., five to nine -barrels, 1c. less, ten and twenty -barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Pig iron is held 25 to 50c. per ton firmer this week as a result of the advance in the United States.

Tin in London is £1 13s. below where it was last week and 20c. down in New York. It is easier on spot.

Billets continue skyward, being \$1.25 to \$1.50 per ton higher at Pittsburg, and makers will not guarantee delivery.

Pig lead has advanced 3s. 6d. on last week in London and has ruled steady in New York without quotably affecting prices here.

The advance in all heavy iron material continues at American centres, wrought and machinery scrap being \$1 per ton up on last week.

Steel rails are \$2 per ton above where they were eight days ago; in fact, the iron

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for
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JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and
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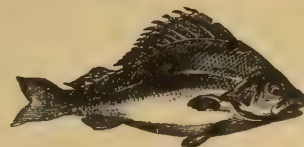
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22 St. John Street, - - MONTREAL.

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CLELAND BROS. & CO.

Fishing Tackle.



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goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

TRADE MARK

The Alloock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

market generally in the United States continues very excited.

Spelter is 7s. 6d. higher in London than it was at this time last week.

Copper has declined £1 12s. 6d. in London, and 25c. in New York, but does not show the same change here, though $\frac{1}{2}$ c. less has been accepted.

ONTARIO MARKETS.

TORONTO, March 24, 1899.

HARDWARE.

THERE is not a great deal of snap in trade this week, but the volume of business totals up well, notwithstanding. The tendency of prices is still upwards. Wire nails, while unchanged, are firm, with an upward tendency. Rivets and burrs are quoted higher. Gas stoves are 10 per cent. dearer. Quotations on cast iron goods have been withdrawn by the manufacturers. They have also been withdrawn on silver-plated ware. Lane's barn-door hangers are 10 per cent. dearer.

BARBED WIRE—A fairly good business is being done at the recent advance. We quote f.o.b. Toronto as follows: Barbed wire, \$2.75 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.75. Staples are quoted at \$3 for galvanized, and \$2.75 for bright. Terms, 2 per cent. off 10 days. There is a fairly good business being done for future delivery.

SMOOTH STEEL WIRE—Trade is still quiet and the discount unchanged at \$3.45 f.o.b. factory.

FINE STEEL WIRE—Quiet, at the discount of 25 per cent. factory.

WIRE NAILS.—There was a further appreciation in prices in the United States last week, but here the market is unchanged, although firm, with an upward tendency. Base price \$2.55 Toronto and west, and \$2.50 east of Toronto. The volume of business is not large.

CUT NAILS—There is a fair volume of business to report at firm and unchanged prices. We quote: \$1.85 per keg f. o. b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—Still quiet. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—No change, either in regard to volume of business or prices. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax.

SCREWS—Trade is as active as ever. We quote: Flat head bright, 85 per cent. off the list; round head bright, 77½ per cent.; flat head brass, 77½ per cent.; round head brass, 70 per cent.; flat head bronze, 70 per cent.; round head bronze, 65 per cent. Terms, 4 months or 3 per cent. 30 days.

BOLTS—An active trade is still to be noted. We quote: Common carriage 5-16 and under, 60 and 15 per cent.; ditto, $\frac{3}{8}$ and larger, 62½ per cent.; machine bolts, all sizes, 60 and 15 per cent.; coach screws, 75 and 10 per cent.; sleighshoe bolts, 80 per cent.; blank bolts, 60 and 15 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; bolt ends, 60 and 15 per cent.; nuts, square, 4½c.; ditto, hexagon, 5c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—An advance of 14 per cent. in rivets and of 5 per cent. in burrs is to be noted. We quote as follows: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Still quiet. The outside markets are steady both for sisal and manila hemp. We quote as follows: Sisal, 7-16 in. and larger, 9¼c.; $\frac{3}{8}$ in., 9¾c.; $\frac{1}{4}$ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; $\frac{3}{8}$ in., 10½c.; $\frac{1}{4}$ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Trade is fair. We quote delivered from stock in Ontario: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Trade is fair. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

GREEN WIRE CLOTH—Business keeps fair. We still quote \$1.20 per 100 square feet.

POULTRY NETTING—A fair trade is still to be noted. Discount of 50 and 5 per cent.

WARE—The tinware trade is remarkably good, and a moderate business is being done in tinware.

GAS STOVES—Prices have been advanced 10 per cent.

EAVETROUGHS—A good many orders have been booked for shipment April 1., although new business has been checked by the advance in prices. We quote as follows: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

CEMENT.—A good trade is reported. English and German have advanced 10c., and Belgian 20c. per bbl. Canadian is firm, but unchanged. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to

\$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

SPADES AND SHOVELS—A good many orders are being booked, but shipments will not be made till next month.

METALS.

The iron market continues to appreciate, but the outside metal markets, generally are quieter, and copper is rather unsettled. Pig lead is firmer. Spelter is firm, but antimony is easier.

PIG IRON—There have been further advances in the outside market. Advices from London state that English iron has been bought there against late sales of American, and that shipments from the latter country will be smaller in consequence.

BAR IRON—Is firm at last week's advance, and there is a fair business doing at \$1.60 from stock and \$1.50 from factory.

BLACK SHEETS—The demand is good, both from stock and for importation. On account of the difficulty of obtaining supplies from the United States attention is again being turned to black sheets of British manufacture.

GALVANIZED IRON—Advices received this week note an advance of 10s. in the price of galvanized iron of British manufacture. Up to the time of going to press, no change has been made in local quotations, but figures are being more closely adhered to. Trade is fairly good. We quote: "Queen's Head," 28 gauge, \$4.65 per 100 lb. American makes, 28 gauge, \$4.50 per 100 lb.; "Gordon Crown," 28 gauge, \$4.50 per 100 lb. Less than case lots 25c. per 100 lb. additional.

COPPER—London cables on Wednesday showed a decline of 10s. on merchant bars, and the copper market during the past week has been a little upset. The supply of copper now appears to be fairly good. Local quotations are unchanged at 18¾ to 19¼c. per lb.

PIG TIN—There is nothing particularly striking on the outside markets to note, although there have been some slight advances during the week on the London market. We still keep 28c. per lb. for Lamb and Flag and 27¼c. for Straits.

TINPLATES—The feature of the week is an advance of 15c. per 100 lb. in local quotations of charcoal tinplates. Sorting-up orders from stock are fairly good. A lively demand is reported for tinned sheets.

CANADA PLATES—The demand is only moderate. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2.60, and all bright, \$3.10 per 100 lb.

PIG LEAD—London cables were slightly higher on Wednesday. In New York, on the other hand, prices were rather easy. Locally we quote 4½c. per lb.

LEAD PIPE—Trade keeps fair. We quote: Ordinary pipe, 7c.; waste, 7½c. Discounts, 17½ per cent.

IRON PIPE—The market is firm and unchanged at the last advance. We quote:

The Merchants Mercantile Co.

260 St. James St., MONTREAL.

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$\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch, \$2.85; $\frac{3}{4}$ inch, \$3.15; 1 inch, \$4.50; $1\frac{1}{4}$ inch, \$6; $1\frac{1}{2}$ inch, \$7.40; 2 inch, \$9.90; larger sizes 70 per cent. discount. Galvanized pipe: $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch, \$5.60; $\frac{3}{4}$ inch, \$6.10; 1 inch, \$8.70; $1\frac{1}{4}$ inch, \$12; $1\frac{1}{2}$ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—Trade keeps fairly good. We quote as follows: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

TINNED IRON—We quote: 30 x 72 (24 gauge), 6c. per lb.; cut sizes, $5\frac{1}{4}$ c. per lb.

COIL CHAIN—The market continues firm at the recent advances. We quote as follows: $\frac{1}{4}$ in., \$6.50; 5-16 in., \$4; $\frac{3}{8}$ in., \$3.60; 7-16 in., \$3.40; $\frac{1}{2}$ in., \$2.35; $\frac{5}{8}$ in., \$3.15; $\frac{3}{4}$ in., \$3.05. There is a fairly good business being done.

SHEET ZINC—The demand is just moderate. We quote: 5-cwt. casks, 8c. per lb.; part casks, $8\frac{1}{4}$ c. per lb.

ZINC SPELTER—A good trade is being done in spelter, and the outside markets rule firm. We quote $7\frac{1}{4}$ to $7\frac{1}{2}$ c. per lb.

SOLDER—Business is moderate and without special feature. We quote as follows: half and half, $16\frac{3}{4}$ to $17\frac{1}{4}$; refined, $16\frac{1}{4}$ to $16\frac{1}{2}$; wiping, $15\frac{3}{4}$ to 16.

ANTIMONY—The market ruled firm up to Wednesday, when London took an easier turn. We still quote 11 to $11\frac{1}{2}$ c. per lb.

PAINTS AND OILS.

The movement of fall goods, except turpentine, which is scarce, is reported by all the large houses here to be larger than even the big trade that is generally done at this season. Turpentine is firm. Linseed oil is steady, and, though in five or six weeks there may be a decline, there is little prospect of a change within that time. There is talk of an advance of $12\frac{1}{2}$ c. per cwt. in white lead, but it is not expected to take place for some weeks. Zinc is somewhat scarce and is very firm. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62 $\frac{1}{2}$; No. 2, \$5.25; No. 3, \$4.87 $\frac{1}{2}$; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to $6\frac{1}{2}$ c.; orange mineral, $7\frac{1}{2}$ to $8\frac{1}{2}$ c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; 55c. per 100 lb. in 5-barrel lots. Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, $9\frac{1}{2}$ c.

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

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76,800 Daily Production.
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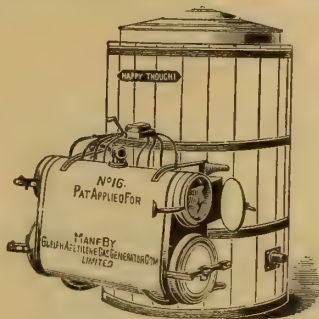
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Manufacturers of Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass. Also of a durable, highly-polished material called "MARBLETT," suitable for Advertising Tablets, Signs, Facias, Direct on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. Benders, Embossers, Brilliant Cutters, etc., etc. Estimates and Designs on application.

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No Peddling. Write Us.

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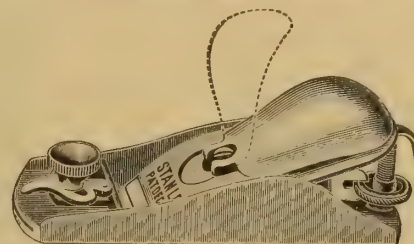
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Stanley's Knuckle-Joint Block Plane.

WITH IMPROVED THROAT ADJUSTMENT.



The knuckle-joint in the cap makes it a lever too; and placing the cap in position, will also clamp the cutter securely in its seat.

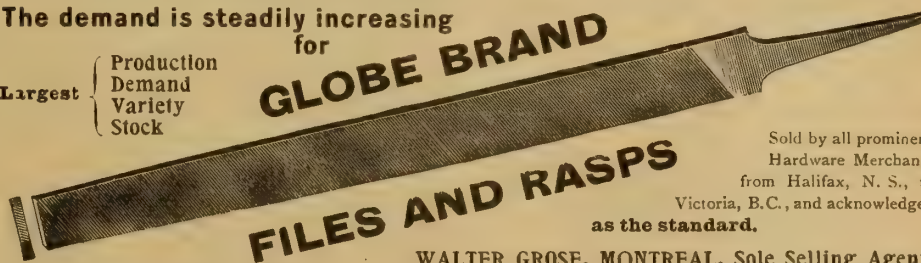
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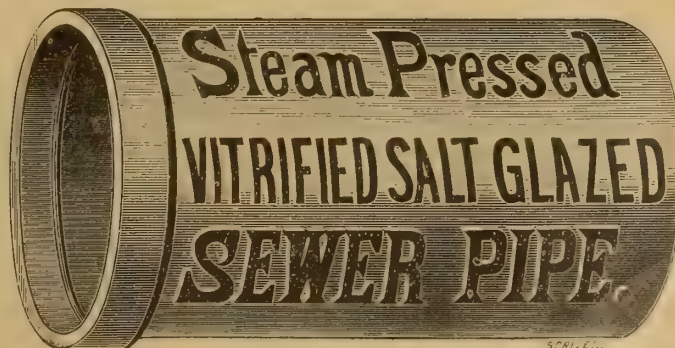
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Chimney Tops,
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The Hamilton and Toronto Sewer Pipe Co., Limited

WRITE FOR DISCOUNTS.

Office and Works, HAMILTON, ONT.



per lb. and 10½c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 52c.; boiled, 1 to 4 barrels, 55c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 69c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The depletion of stock still continues. The sorting orders which usually arrive about this time, have not, in many cases, left Europe yet, so the sizes which are short will not be augmented for some weeks. Prices are slow and unchanged. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

MARKET NOTES.

Gas stoves are 10 per cent. dearer.

English galvanized iron is 10s. dearer.

Quotations on silver-plated ware have been withdrawn.

The discount on both rivets and burrs has been reduced.

Lane's barn-door hangers have been advanced 10 per cent.

English and German cement have advanced 10c., and Belgian cement 20c.

Nut coal has advanced 25c. per gross ton and 23c. per net ton, the figures now being \$4.75 per gross ton and \$4.24 per net ton, at Buffalo and bridges.

Friday next being a public holiday, advertisers would confer a favor by sending in their copy for change of advertisement one day earlier than usual.

AN INDEPENDENT GLASS FIRM.

The Sydenham Glass Co., Limited, Wallaceburg, Ont., does not belong to the combine. That it is able to stand alone is abundantly evidenced by the steady growth of its business.

Within a very short time a new factory 70 x 80 ft. with a 30 x 70 ft. addition, a new packing-house 40 x 50 ft. and storage-houses 400 x 48 ft., have been added to the works. This doubles the number of employees, of whom there are now over 300 on the company's pay-roll. The extensiveness of the works was impressed on a representative of **HARDWARE AND METAL** most effectively by the manager, Mr. Gordon, who showed him through the many departments of the concern.

A CHANGE IN TRAVELERS.

Mr. Herbert Robinson, who for the past 10 years has represented The McClary Manufacturing Co., Limited, east of Toronto, has severed his connection with that firm and became manager of a Brownsville, N.Y., concern. His place upon the road has been taken by Mr. Sidney Fisher, who has been in the employ of the firm about six years and is well informed in regard to the various lines carried by it.

The Lasting Protection

given by

EASTLAKE Steel Shingles

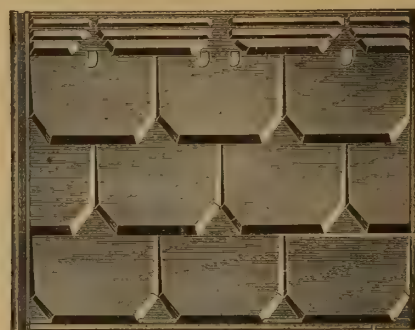
Makes them more economically trustworthy than others.

Besides being strictly fire, lightning and rust proof, they can be laid quicker than any others, their patent telescopic side locks (only found in Eastlakes) making it possible to fit them together with wonderful ease and rapidity.

We supply them either Galvanized or Painted. If you haven't them in stock, write now for our price list—they're in popular demand everywhere.

METALLIC ROOFING CO., Limited

1179 King Street West - TORONTO.



SPECIAL METAL GOODS.

The demand of late years for special brass and iron goods, "the kind a particular man wants, but does not know where he can get," has been steadily increasing. In order to meet this demand, The Toronto Brass Manufacturing Co., 91-93 Richmond street west, have made this a leading feature of their business, and have met with the heartiest support of many of the leading architects of the country, sending their goods to all parts of Canada. Having their own foundry, and making and completing everything on their own premises, they are enabled to match perfectly any damaged or broken metal goods plated or finished in any style.

Refinishing and lacquering of old gasaliers and household brass goods is another large branch of their business.

Hardwaremen and architects who desire anything in this line, either for interior or exterior trimmings, will find it to their advantage to correspond with the firm, whose announcement will be found on page 17.

SNIDER RELOADING SETS.

Lamplough & McNaughton have now on hand a supply of reloading sets, made especially for reloading Snider cartridges. These were made specially for this firm and should have a great boom for the thousands of users of Snider rifles. A card will bring any information as regards prices, etc.

FANCY GOODS FOR HARDWAREMEN

The summer outdoor sports are so near at hand that the dealer who carries a stock of sporting goods would do well to look to his stock of these wares. One of the largest and most up-to-date wholesale houses handling sporting goods is Nerlich & Co., Toronto, who also carry a large range of fancy goods.

RAILWAY SUPPLIES MOVING.

Mr. John J. Gartshore, dealer in railway supplies, Toronto, in conversation with **HARDWARE AND METAL** said: "There

is quite a lot of stuff moving. I have sold several hundred tons of relaying steel rails for electric roads. Business in that line seems to be opening up earlier than usual. Then quite a number of orders for light rails for quarry and lumber tramways have been secured. Yes, business is much better than it was last year," he added.

PULLEYS FOR HARDWAREMEN.

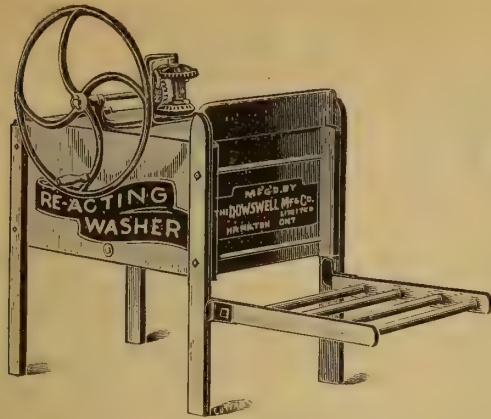
The Dodge Manufacturing Co. of Toronto, Limited, who have succeeded the Dodge Wood Split Pulley Co., are calling the attention of the trade to their manufactures, through our columns. The Dodge Co. state that their pulley is now extensively handled and sold by the hardware trade, both throughout Canada and the United States; also throughout Great Britain. It is conceded without question that the "Dodge" pulley is the standard wood pulley, and the Dodge Manufacturing Co. have decided to place their pulley in Canada at prices which will leave no excuse for buyers handling lower grade goods. The Dodge Manufacturing Co. issue a handsome illustrated catalogue and a beautiful show card, which are mailed free for the asking.

CANADIAN WHIPS FOR AUSTRALIA.

The Hamilton Whip Co. is making shipments of whips to Australia and New Zealand. A representative of **HARDWARE AND METAL** saw a large consignment the other day ready for shipment to those parts of the world. The company is paying a great deal of attention to the export as well as to the home trade.

AN EXTENSIVE CORDAGE FIRM.

The business of M. B. Perine & Co., manufacturers of hemp, flax, and jute cotton twines, cordage, yarns, and tow, Doon, Ont., whose advertisement is printed on page 85 of this issue, is a large and growing one. A representative of **HARDWARE AND METAL**, who recently was shown through the works, found 125 hands employed there. This firm deserves the success it has attained.



Established 1871.

Incorporated 1897.

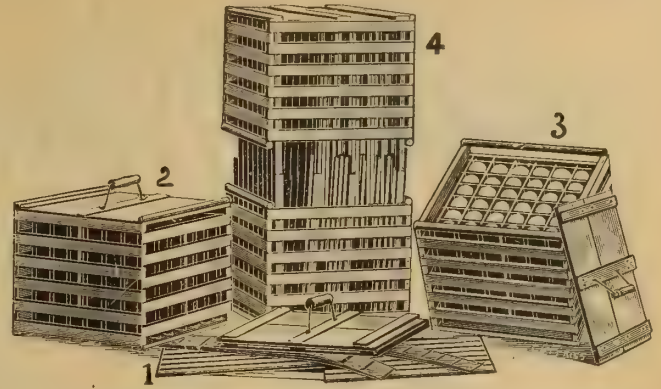
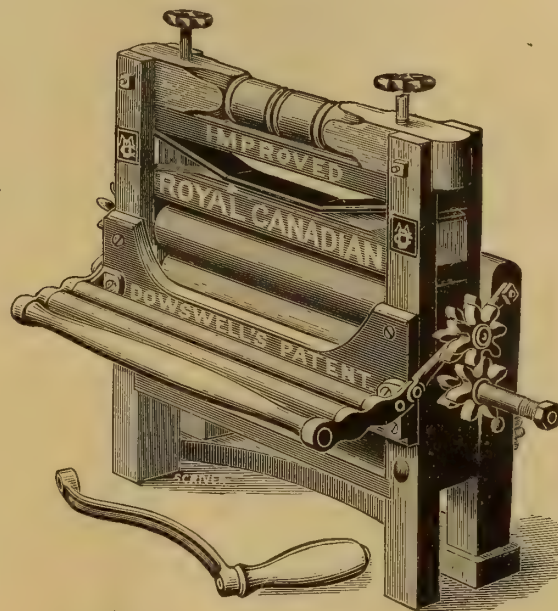


Fig. 1, Folded Flat; Fig. 2, Set up, Closed; Fig. 3, Set up, Open; Fig. 4, shows 1/2 dozen crates complete, ready for shipment.

**Clothes
Wringers**

**Washing
Machines**

Mangles



**Revolving
Barrel Churns**

Egg Crates

Lawn Swings

Etc., Etc.

Manufactured by

The Dowswell Manufacturing Company

LIMITED

Cor. Bay and Murray Sts..

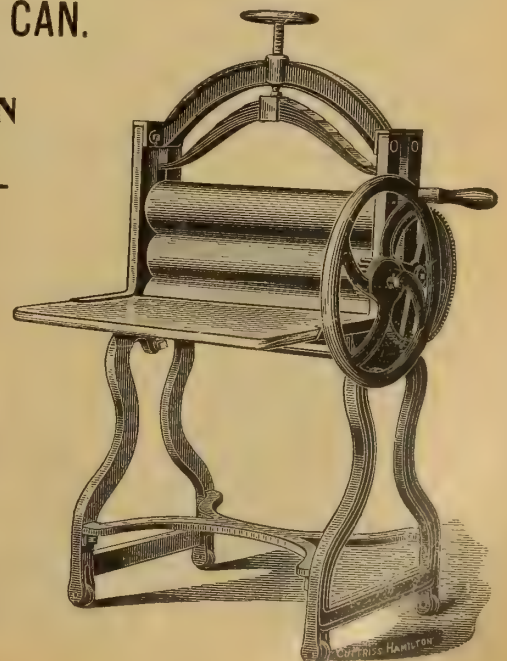
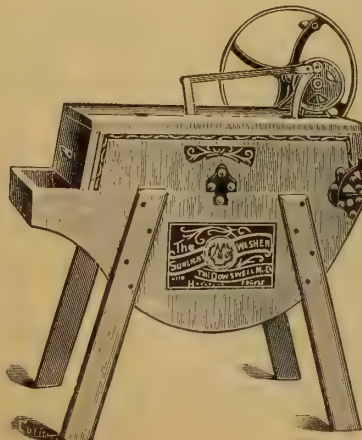
HAMILTON, CAN.

W. L. HALDIMAND & SON

32 and 34 St. D'Azur Street

Eastern Agents.

MONTREAL



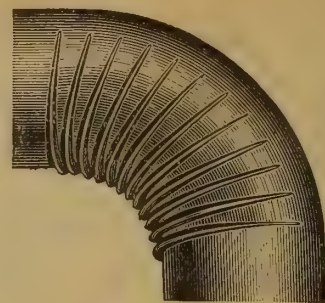


No. 1 ELBOW.

E. T. Wright & Co.

Manufacturers,

Hamilton, Ontario.



No. 2 ELBOW.

Sole Owners
and
Manufacturers
..of..

The Patent Elbow Co's

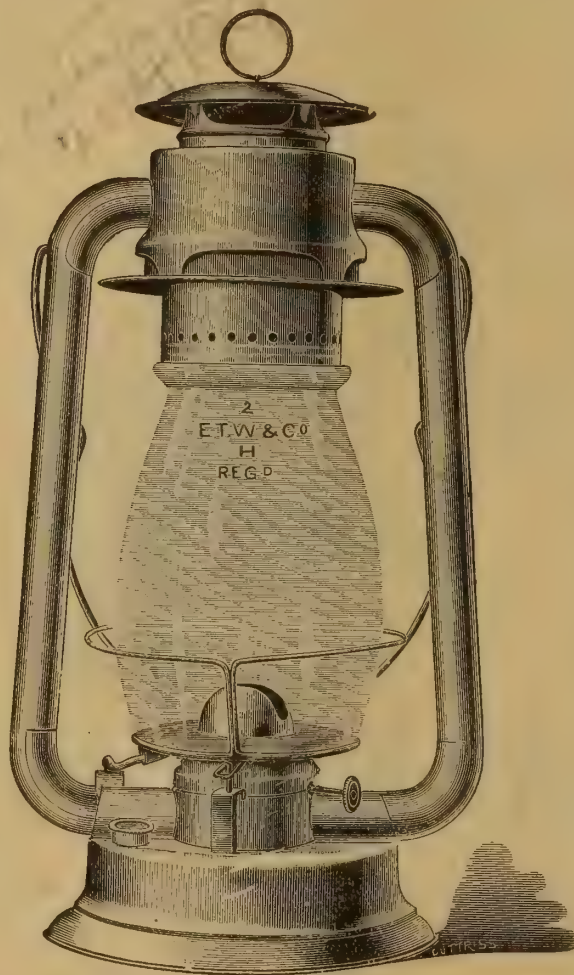
CORRUGATED AND
PLEATED

Elbows

and

SCHIEFF'S

Stove Pipes.



Manufacturers
..of..

Tubular,
Cold Blast,
Railroad and
Searchlight

Lanterns.

Full line of ...

Plain, Japanned and
Stamped

Tinware,
Cages, Sifters,
Mouse Traps,
etc., etc.

WRITE FOR OUR NEW CATALOGUE.



Tinsmiths' Tools
..and..

Supplies

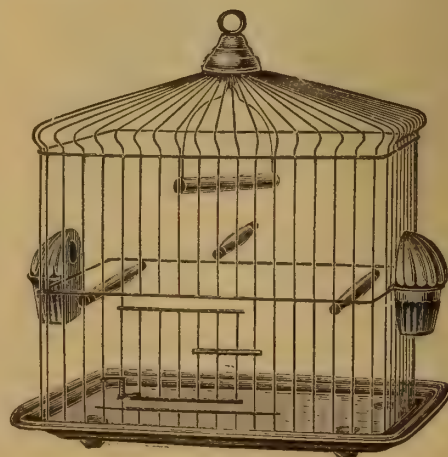
Enamelled Ware

"Horse's Friend"

Curry Combs

Fly Traps

Milk Can Fixtures



The Asbestos Warehouse

Asbestos materials of every description. Get our prices before purchasing elsewhere.

WM. SCLATER & CO., Limited
42 Foundling St., MONTREAL.



P. O. BOX 1049

Red
9-6-9



View of Diamond Grip Fence on Upper Canada College Grounds, King Street, Toronto.
Opposite Government Buildings.

DIAMOND GRIP FENCE is the only hardware fence where you can use Coiled, Plain, Twisted, or Barb Wire; can be handled with 20 to 30 per cent. profit by the hardware trade. Diamond Grip Fence is in the end the cheapest wire fence ever invented. It gives the trade 3 times the profit, is 5 times as strong and lasts 10 times as long as any woven wire fence ever made; most simple to build and farmers prefer to any other. No fence pays a hardwareman like Diamond Grip; none so easy or satisfactory to handle. Send order for a few hundred rods immediately, as we are always terribly rushed in the Spring. Write at once for sample and circulars to

Canada Fence Co.

LONDON, ONT.

The following

*is a partial list of the
Goods we Manufacture:*

The Sun Lighting Machine.

(sprinkling system.)

The Beacon Acetylene Machine.

(immersion system.)

The Simplex Acetylene Generator.

(the best and cheapest machine made for supplying a moderate number of lights.)

The Duplex Acetylene Machine.

(the only machine that will supply both Light and Heat from one and the same machine.)

Acetylene Gas Stoves and Ranges.

(for use with the above machine.)

Special Photographic Apparatus.

(beats sunlight for photography.)

The "Crescent" Acetylene Burner,

Acetylene Gas Meters, etc.

We also make a specialty of lighting Towns and Villages, for which we design special apparatus. Our goods are all guaranteed. Send for catalogue.

The Acetylene Manufacturing Co.
LIMITED

Head Office, LONDON, ONT.

Capital \$300,000.

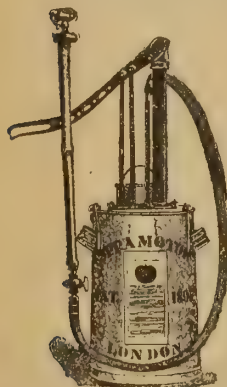


WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.,
Limited
HAMILTON, ONT.

All Spraying, Disinfecting, and Whitewashing
can be done with **THE SPRAMOTOR.**



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1893.
Spramotor Company,
London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus

had practically none. Yours truly,

W. E. H. MASSEY

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded **FIRST PLACE.**

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.

Mention this paper.

1879 ESTABLISHED 1879

Essex Handle and Wood Turning Works

Late of Essex, now LEAMINGTON, ONT.

MAKERS OF . . .

Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Double-trees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction. **All stock air-dried, not kiln-dried.** If you are going to be in it, place your order with

Gardner Bros. & Co.



Have you seen our

1899
Catalogue of

Brushes

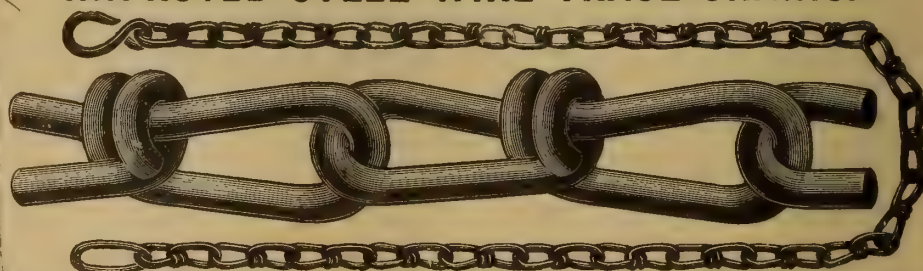
Fifteen pages of new lines at prices that defy competition.

Do not fail to get our list and discounts before placing your orders.

Meakins, Sons & Co.,
(13) 313 St. Paul St., MONTREAL.

Meakins & Sons,
King St. East, HAMILTON, ONT.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

Boeckh

Please remember one thing—when the prices of raw materials advance it does not find us unprepared to serve your interests and serve them well. We buy direct in large quantities from the producer and anticipate our needs for months ahead. If prices rise we can still give you our usual high quality in our Painters' Brushes at no additional cost, and we are glad to have it so.

Thus do we try to obtain your good-will—without it a business gets into ruts which pull it down. Have you seen our Patent Bridled Brush for Painters? We have an illustrated book telling all about it—send for it, it is free.

Brushes

Boeckh Bros. & Company, Mfrs.
Toronto, Ont.

MANITOBA MARKETS.

WINNIPEG, March 21, 1899.

BUSINESS continues to improve rapidly, and the volume is much larger than for the corresponding season last year.

Prices continue to advance. Barbed wire has gone up still further, and is now quoted at \$3.25; plain twist is also \$3.25, and staples \$3.75. With these exceptions last week's price list is unchanged.

The principal demand is for building hardware, though all lines are selling freely.

Price list of the week is as follows:

Barbed wire, 100 lb.	\$3 25
Plain twist	3 25
Staples	3 75
Oiled annealed wire	2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg	3 00
" 16 and 20	3 05
" 10	3 10
" 8	3 15
" 6	3 20
" 4	3 40
" 3	3 65
Cut nails, 50 and 60 dy.	2 40
" 20 to 40	2 45
" 10 to 16	2 50
" 8	2 55
" 6	2 60
" 4	2 85
" 3	3 10
" 3 fine	3 40
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.10 basis	
Swedish iron, \$5 basis	
Tool steel, Black Diamond, 100 lb	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lb	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 gauge	3 75
18 to 22 gauge	4 00
24 gauge	4 25
26 gauge	4 50
28 gauge	4 75
Genuine Russian, lb	12
Imitation	8
Tinned, 24 gauge, 100 lb	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, IC charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 00
Ingot tin	29
Canada plate, 18 x 21 and 18 x 24	3 25
Sheet zinc, cask lots, 100 lb	8 50
Broken lots	9 00
Pig lead, 100 lb	4 25
Wrought pipe, black, 1/4 inch	2 75
" 1/2 inch	3 00
" 3/4 inch	3 75
" 1 inch	4 25
" 1 1/4 inch	5 75
" 1 1/2 inch	7 75
" 2 inch	9 50
" Over 2 inch	12 50
Rope, sisal, 7-16 and larger	70 p.c.
" 3/4	10 00
" 1/2 and 5-16	10 50
Manilla, 7-16 and larger	11 00
" 3/4	11 50
" 1/2 and 5-16	12 00
Solder	12 50
Cotton, all sizes, lb.	18
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, 10 and 5 p.c.
Round	75 p.c.
Flat " brass	77 1/2 p.c.
Round " "	70 p.c.
Bolts, carriage	60 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.

Rivets, iron	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels	40 p.c.
Harvest tools	.60 to .60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	57
boiled	60

FAIRBANKS GOODS IN WINNIPEG.

The Fairbanks Co. have placed a large stock of their scales with Miller, Morse & Co., of Winnipeg, who will handle Fairbanks standard scales, gasoline engines, and some of the other specialties of The Fairbanks Co., for Manitoba and the Northwest Territories. They will constantly carry in stock a full assortment of goods most commonly called for, and all inquiries for

these products for this territory should be sent to them.

THE ADVANCE IN STOVES.

The McClary Manufacturing Co., London, Ont., are sending the following circular to their customers concerning the advance in stoves noted in last week's **HARDWARE AND METAL**: "Owing to the increased cost of raw materials and advances made in wages, we are now obliged to make the discount off our stove list 45 per cent. We will allow freight to your nearest station, except where the freight rate is higher than to the stations named below. When the rate is higher than these we will allow freight equal to the most favorable point named below: Wiarton, Owen Sound, Meaford, Collingwood, Penetanguishene, Midland, Gravenhurst, Haliburton and Pembroke."



We call your attention to the protecting band on the G. & J. — Goodrich-made Detachable.

This band really protects the Inner Tube.

The Inner Tube may be slipped into the tire in any position.

No spoke heads can come through the band—none can come between the soft-edges as they are held in the "second groove."

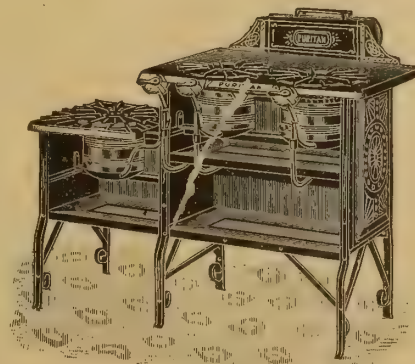
The picture shows.
Is the G. & J.—Goodrich-made Detachable good? Yes.



Get them on your wheels—free.

American Tire Co., Limited,
163 King St. W., Toronto.

Puritan Wickless Blue Flame.



**This is the only Wickless
Blue Flame Oil Stove that
has given satisfaction. . .**

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY,

CANADIAN AGENT,

96 and 98 Queen Street East,

TORONTO

LIST OF PRINCIPAL CANADIAN HARDWARE JOBBERS AND BROKERS.

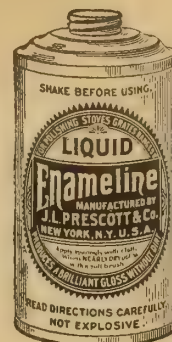
- AMHERST, N.S.**
WHOLESALE HARDWARE—
Douglas & Co.
W. B. Murdock.
- ANTIGONISH, N.S.**
WHOLESALE HARDWARE—
D. Grant Kirk.
- BRANTFORD, ONT.**
WHOLESALE HARDWARE—
James Smith, Son & Co. (saddlery hardw're).
- BROCKVILLE, ONT.**
WHOLESALE HARDWARE—
A. G. Dobbie & Co.
- CHARLOTTETOWN, P.E.I.**
HARDWARE BROKER—
E. H. Norton.
- GUELPH, ONT.**
WHOLESALE HARDWARE—
Christian Kloeffer (carriage hardware).
- HALIFAX, N.S.**
WHOLESALE HARDWARE—
W. B. Arthur & Co.
A. M. Bell & Co.
Black Bros. & Co.
Cragg Bros. & Co.
H. H. Fuller & Co.
A. J. Grant & Co.
G. E. Smith & Co.
W. Stairs, Son & Morrow.
- HARDWARE BROKERS—**
E. D. Adams.
J. B. Bennett.
Grant, Oxley & Co.
- HAMILTON, ONT.**
WHOLESALE HARDWARE—
Fraser, Johnson & Co. (saddlery hardware).
Adam Hope & Co.
A. K. Melbourne (carriage hardware).
John Proctor & Co. (iron).
Wood, Vallance & Co.
Cooke Hardware Co. (emery and hardware specialties).
- HARDWARE BROKERS—**
The Canadian Enterprise Co. (bicycle sundries).
- KINGSTON, ONT.**
WHOLESALE HARDWARE—
A. Chown & Co.
Edwin Chown & Son (stoves).
Dalton & Strange.
- LONDON, ONT.**
WHOLESALE HARDWARE—
The John Bowman Hardware & Coal Co.
James Cowan & Co. (carriage and builders').
J. Darch & Sons (saddlery hardware, etc.)
The Hobbs Hardware Co.
The McClary Mfg. Co., Ltd. (stoves, enamel ware, etc.)
The Kerrigan Purchasing Association.
- MONTREAL.**
WHOLESALE HARDWARE—
Amiot, Lecours & Lariviere.
E. Becker & Co.
Bishop & Co.
Caverhill, Learmont & Co.
The Edward Cavanagh Co.
Thos. C. Collins & Sons.
T. L. Clark & Co.
Crathern & Caverhill.
Desforges & Geoffrion.
Daly & Moran.
Dorken Bros. & Co.
The Thos. Davidson Mfg. Co., Limited.
Drummond McCall & Co.
Foucher & Fils.
John Forman.
W. & B. Francis.
Frothingham & Workman.
Gravel & Boulard.
L. H. Hebert.
E. N. Heney & Co. (saddlery hardware, etc.)
Howden, Starke & Co.
James Hutton & Co.
H. R. Ives & Co.
Letang, Letang & Co.
Letourneux, Fils & Cie., Limited.
W. McNally & Co. (cements, etc.).
Lewis Bros. & Co.
A. McPherson & Son.
D. Madore.
Magnan Bros.
The Montreal Hardware Mfg. Co., Limited.
- Provost & Fleury.
A. Prudhomme & Frere.
Seybold, Son & Co.
J. H. Wilson.
B. & S. H. Thompson & Co.
- WHOLESALE METALS—**
Amiot, Lecours & Lariviere.
Canada Switch & Spring Co., Limited.
Canada Mill Stock Co.
Caverhill, Learmont & Co.
Crathern & Caverhill.
A. C. Leslie & Co.
W. R. Cuthbert & Co.
J. Diamond.
Drummond, McCall & Co.
Garth & Co.
Henderson & Glass.
Albert Holden & Co.
H. McLaren & Co.
Geo. W. Reed & Co.
The James Robertson Co., Limited.
Thos. Robertson & Co., Limited.
B. & S. H. Thompson & Co.
J. R. Walker & Co.
Winn & Holland.
- WHOLESALE PLUMBING SUPPLIES—**
Amiot, Lecours & Lariviere.
Blouin, Desforges & Latourelle.
The Edward Cavanagh Co.
T. L. Clark & Co.
W. R. Cuthbert & Co.
Samuel Fisher.
Garth & Co.
Gurney-Massey Co., Limited.
H. R. Ives & Co.
King, Warden & Son.
Labelle & Deschamps.
H. McLaren & Co.
Martineau Freres.
The James Robertson Co., Limited.
Thos. Robertson & Co., Limited.
J. & H. Taylor.
Nap. Turcot.
Webster & Marshall.
- WHOLESALE PAINTS AND OILS—**
Amiot, Lecours & Lariviere.
Baylis Mfg. Co.
The Canada Paint Co., Limited.
The Edward Cavanagh Co.
Daly & Moran.
Desforges & Geoffrion.
P. D. Dods & Co.
Henderson & Potts.
Wm. Hill.
R. C. Jamieson & Co.
Letang, Letang & Co.
McArthur & Co.
McArthur, Corneille & Co.
McCaskill, Dougall & Co.
C. R. McDowell.
David Madore.
A. Prudhomme & Bro.
A. Ramsay & Son.
The James Robertson Co., Limited.
Wm. Sclater & Co., Limited.
C. A. Sharpe.
The Sherwin-Williams Co.
- HARDWARE BROKERS—**
J. N. Warminton, hardware.
Frank H. Scott, cutlery.
Squire, Watson & Co., hardware.
Becherer, Loos & Co., hardware.
J. MacKay Rose, cutlery and tools.
Andrew T. Porter, sporting goods, cutlery.
Godfrey S. Pelton, hardware.
Thos. L. Paton, hardware and paints.
Bernard J. Coghlin, metals.
Thos. C. Collins.
W. L. Haldimand & Son.
Lamplough & McNaughton, hardware, etc.
Chas. Cassils, iron and steel.
Jas. Hutton & Co., cutlery and metals.
Bacon Bros., hardware.
Arthur H. Dowker, hardware and glass.
Alexander Gibb, metals.
Walter Grose, hardware.
A. C. Leslie & Co., iron and steel.
H. McLaren & Co., hardware.
J. & R. McLea.
Duncan S. McIntyre, hardware.
Thos. T. Turnbull & Co., hardware.
C. M. Thompson & Co., hardware.
A. Watt & Co., paints.
John Watterson & Co., hardware and oils.
Henry Knox, heavy hardware and metals.
John Forman, specialties.
J. J. Wylde, belt dressing, etc.
J. H. Hanson, tinware and hardware.
- NEW GLASGOW, N.S.**
WHOLESALE HARDWARE—
Thompson & Sutherland.
- OTTAWA.**
WHOLESALE HARDWARE—
Thomas Birkett.
Butterworth & Co.
A. Workman & Co.
Wm. Howe (paints and oils).
- OWEN SOUND, ONT.**
WHOLESALE HARDWARE—
J. W. Redfern.
- PETERBOROUGH, ONT.**
WHOLESALE HARDWARE—
B. F. Ackerman (saddlery hardware).
The Peterboro' Hardware Co., Limited.
- PORT ARTHUR, ONT.**
WHOLESALE HARDWARE—
The Marks-Clavet-Dobie Co.
- QUEBEC.**
WHOLESALE HARDWARE—
William Doyle.
N. Lemieux & Fils.
J. E. Martineau.
Chas. E. Parent.
Ross & Co. (general wholesale); also Buckingham, Que.
Henry S. Scott & Co.
- HARDWARE BROKERS—**
A. E. Boisseau & Co.
James Bisset & Co. (oils).
- REGINA, N.W.T.**
WHOLESALE HARDWARE—
The Smith & Ferguson Co., Limited.
- ST. CATHARINES, ONT.**
WHOLESALE HARDWARE—
The McKinnon Dash and Hardware Co., (carriage and bicycle sundries).
- ST. HYACINTHE, QUE.**
WHOLESALE HARDWARE—
Joseph Brodeur (general wholesale).
- ST. JOHN, N.B.**
WHOLESALE HARDWARE—
J. & E. R. Burpee.
Emerson & Fisher.
The S. Hayward Co., Limited.
T. McAvity & Sons.
- WHOLESALE OILS—**
J. R. Cameron.
- SHERBROOKE, QUE.**
WHOLESALE HARDWARE—
Coderre, Fils & Cie.
J. S. Mitchell & Co.
- SUMMERSIDE, P.E.I.**
WHOLESALE HARDWARE—
Robert T. Holman, wholesale gen. merchant.
David Rogers & Son.
- TORONTO.**
WHOLESALE HARDWARE—
Aikenhead Hardware Co.
Bertram, Wilson & Co.
H. S. Howland, Sons & Co.
Rice Lewis & Son, Limited.
The Kemp Mfg. Co. (enamel ware, etc.)
M. & L. Samuel, Benjamin & Co.
Vokes Hardware Co.
Samuel Trees & Co. (carriage hardware).
C. Kloeffer (carriage hardware).
The Allcock, Lait & Westwood Co., Ltd. (sporting goods).
- WHOLESALE METALS—**
M. & L. Samuel, Benjamin & Co.
Rice Lewis & Son, Limited.
The James Robertson Co., Limited.
The Metallic Roofing Co., Limited.
- WHOLESALE PAINTS—**
Canada Paint Co., Limited.
T. W. Old & Co.
Sanderson Percy & Co.
The James Robertson Co., Limited.
Stewart & Wood.
P. D. Dods & Co.
J. H. Farr & Co.
The E. Harris Co., Limited.
- WHOLESALE PLUMBING SUPPLIES—**
The American Copper Co.
Coulter & Campbell.
Malcolm & Co.

Enameline

The Modern STOVE POLISH



PASTE.



LIQUID.



CAKE.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.

The James Morrison Brass Mfg. Co., Limited.
The Ontario Lead & Wire Co., Limited.
J. O. Parker & Co.
Rice Lewis & Son, Limited.
The James Robertson Co., Limited.
Toronto Hardware Mfg. Co.
Toronto Foundry Co.

HARDWARE BROKERS—

Wm. G. Blyth, steel and iron.
C. A. De Lisle, wire.
T. E. Howard, brass goods.
James Johnson, wire.
Wm. Kyle, hardware.
W. S. McGregor, hardware.
Thos. Mitchell, guns.
John Rockwell, bicycle supplies.
Stevenson & Mitchell, iron and steel.
A. H. Symons, cutlery, hardware, etc.
J. H. Webber, hardware.
W. B. Stewart, cordage.
T. Mortimer, cutlery and hardware.
J. T. Craig, hardware and belting.
W. J. Jeandron, hardware.
John J. Gartshore, railway supplies.

VANCOUVER.

WHOLESALE HARDWARE—
The Vancouver Hardware Co., Limited.
WHOLESALE PLUMBING SUPPLIES—
John Boyd & Co.

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Also Sheet Brass Specialties (stamped or drawn to order).

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We are now in a position to fill orders for our—

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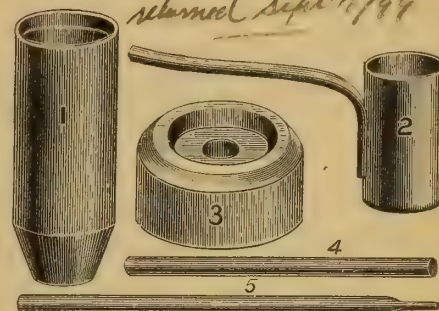
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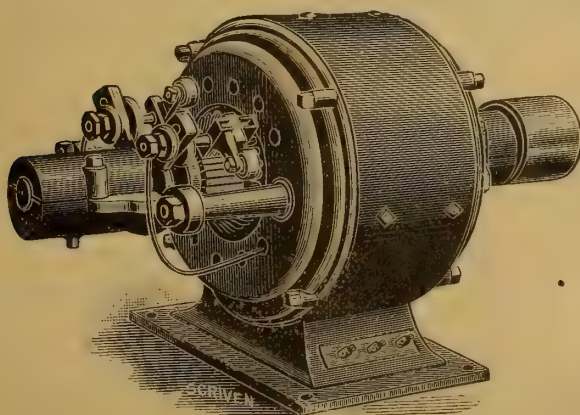
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3. WOOD SEAT.
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WE have recently purchased at Canton, Ohio, a complete outfit for the manufacture of a superior line of **Artistic Metal Ceilings, Wall Decorations, Building Fronts, Corrugated Iron, Flat Roofing, Finials, etc.** We are now ready to execute orders, and solicit enquiries. Our new Catalogue will be ready soon.

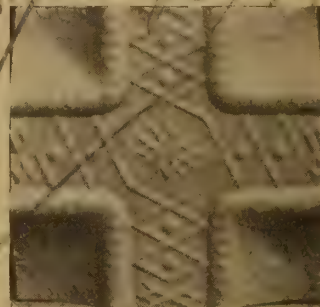


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"Safe Lock"
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Our new line of ceilings are of handsome design and superior construction — there being no visible joints where our plates are used.

We are rapidly acquiring the roofing trade with the "Safe Lock." The success attending their introduction has been wonderful, and yet not wonderful when their very superior construction is considered — interlocking as they do on all four sides. Exclusive control is given to dealers who will give this branch of their business reasonable attention.

We will tell you more about our goods upon application.



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Impure water a prolific source of disease.

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Now
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Not a cheap article—but GOOD.

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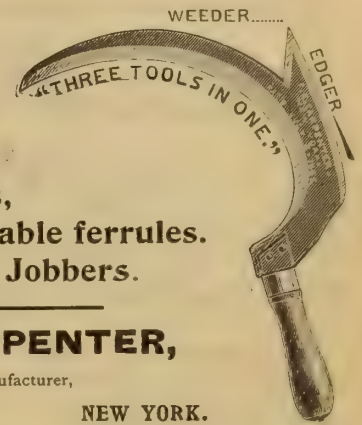
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Strong malleable ferrules.
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Buy the Best.



HERCULES

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Star Brand Cotton Rope
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For Sale by all Wholesale Dealers

NOVA SCOTIA COAL AND GOLD OUTPUT.

The mines report of the Province of Nova Scotia was laid on the table of the Legislative Assembly a few days ago by Premier Murray. In connection with this, E. M. McDonald stated that, on account of the great depth at which coal from Pictou mines had now to be taken, the Government would be asked to reduce the royalty on Pictou coal from 10c. to 7c., thereby not more than putting them on an equality with other mines that paid 10 and 12c.

The report showed that coal sold during the year, as compared with 1897, was as follows:

	1897.	1898.
Nova Scotia.....	641,308	667,252
New Brunswick.....	242,043	266,789
P. E. Island.....	62,032	93,241
Newfoundland.....	75,990	62,051
Quebec.....	875,874	944,160
West Indies.....	9,356	.....
United States.....	106,279	98,027
Other countries.....	.....	3,877

The production was 2,281,454 tons compared with 2,320,916 tons in the year 1897. There is an increase in the sales in Nova Scotia, New Brunswick, Prince Edward Island and Quebec, the sales to the last named point coming close to the million mark. There has been a decrease in the Newfoundland and United States sales. It is confidently expected that in a few weeks shipments of gas coal to Boston from Cape Breton collieries will be commenced on a basis of at least 700,000 tons per annum. If this be carried out and no unforeseen obstacle intervenes, the total sales of next year should be in the vicinity of 3,000,000 tons. The total sales for the year were 2,135,397 tons, compared with 2,013,421 tons in 1897.

The gold returns for the year show that 31,104 oz. 17 dwts. of gold were extracted, as compared with 26,963 oz. 14 dwts. 2 grains in 1897. The returns for this year are fairly up-to-date. The figures in detail are as follows:

	Oz.	Dwt.	Gr.
Malega Barrens.....	2,040	..	..
Brookfield.....	3,854	18	..
Waverly.....	504	13	11
Oldham.....	1,329	9	14
Sherbrooke.....	5,201	4	10
Caribou.....	1,201	4	19
Lake Catcha.....	396	16	11
Gold River.....	667	13	23
Millipisgate.....	1,631	1	..
Kemptville.....	109	15	5
Stormont.....	8,386	17	2
Fifteen Mile Stream.....	537	..	..
Killag.....	556	8	..
Uniacke.....	1,779	6	23
Tangier.....	1,341	..	..
Wine Harbor.....	113	5	17
Montague.....	119	8	10
Other Districts.....	1,254	10	23
Total.....	31,104	17	..

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

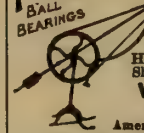


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Largest Variety, Toilet, Hand, Electric Power. ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

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HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

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McLaskill, Dougall & Co
Fine Varnish & Japan
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Price Lists on application

Size, 3/4-inch.



Cheapest
IN THE
WORLD.

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The Daisy Sanitary Earth Closet



Made entirely of Metal, and Ventilated.

Designed for dwellings and places where water closets cannot be used.

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Write for circulars and trade discounts.

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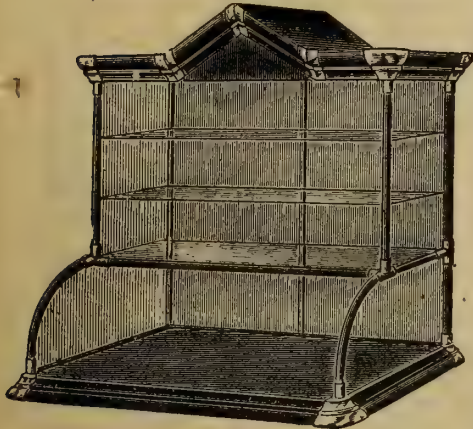
Established 1874.

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Manufacturers of

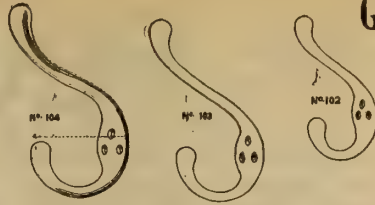
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of every description.



STORE, BANK, OFFICE FITTINGS.
WOOD GRILLS AND AUTOMATIC TURNINGS.

Catalogue and Drawings Furnished.

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Made by an entirely new process.
 Cheaper and better than old style.
 Your stock not complete without them.

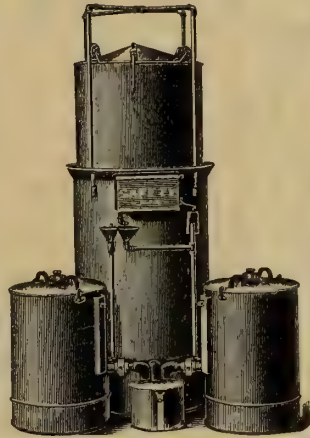
THE GUNN CASTOR CO., Limited**KNOX HENRY,**

Canadian Agent, 220½ Board of Trade, MONTREAL

ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

**THE SAFETY LIGHT & HEAT CO.**

Sole proprietors and manufacturers of the celebrated

Dundas, Ont.**CLIFF-WARDLAW GENERATORS.**

Send for Booklet.

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PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

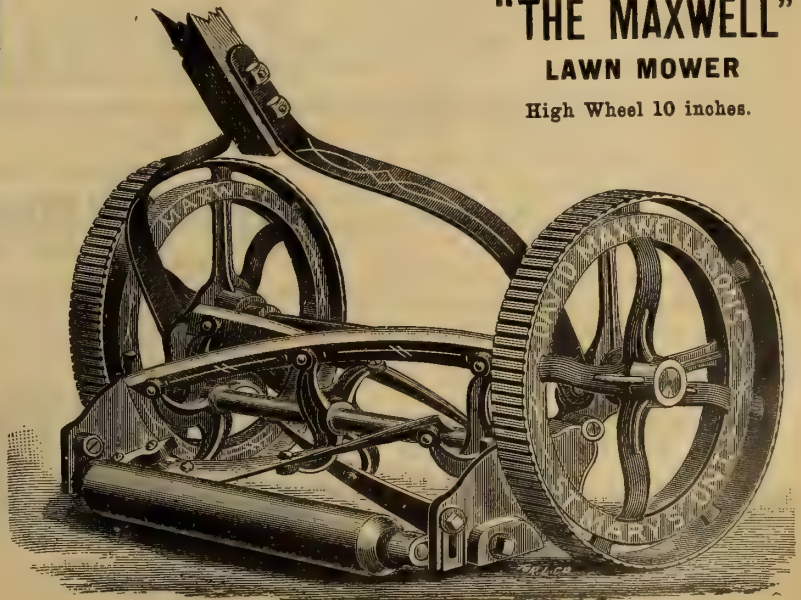
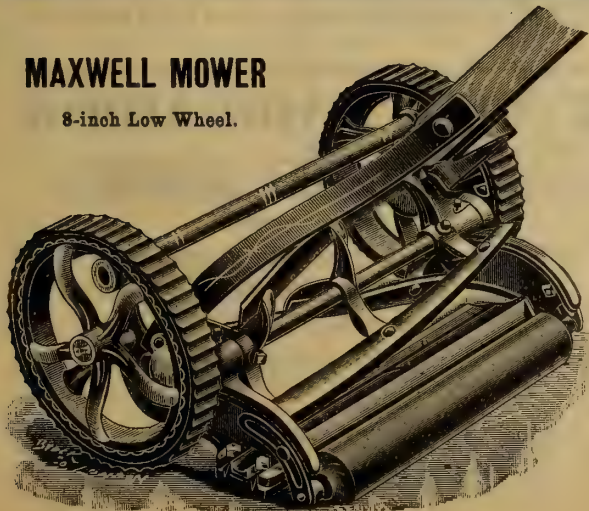
If your Wholesale House does not offer you these articles

SEND DIRECT TO US.**"THE MAXWELL"****LAWN MOWER**

High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.

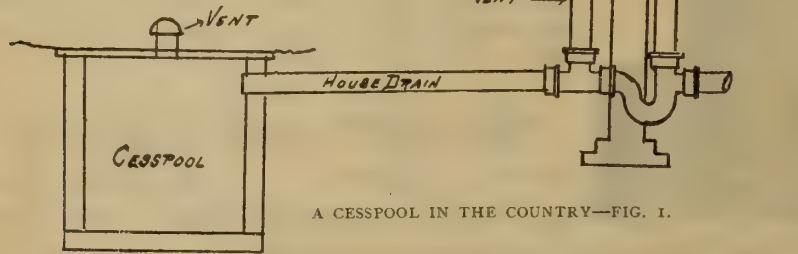


HEATING AND PLUMBING

A CESSPOOL IN THE COUNTRY.

E NQUIRIES are almost constantly being made in regard to the construction of cesspools in the country.

Recently a correspondent of The Plumbers' Trade Journal asked what would be the best way to make the connection from the house to the cesspool where there are water closet, bath tub, wash bowls and basin sink in the house.



A CESSPOOL IN THE COUNTRY—FIG. 1.

The advice given was as follows: "In such cases it is good practice to connect up the system something similar to our Fig. 2. Get the cesspool down as deep as the circumstances will permit. Provide it with a close fitting flag of pavement or iron cover. If a tree is handy, run a cesspool vent up the tree to a safe height, as shown in our figure; that is to say, if the owner does not object. Place the main drain trap where shown and provide it with a cleanout so that either side of the trap may be accessible without digging up. If you cannot use a tree, then run a separate vent up the building, as you suggest."

PLUMBING AND HEATING NOTES.

Mr. A. G. Booth, manager of The Toronto Steel Clad Bath Co., Limited, who was quarantined in his house for two months with scarlet fever, expects to be back to work on Monday next.

The general opinion in Toronto is that though the amount of contract work done so far this year is not as large as that of last year, the prospects are that the summer will bring with it even greater activity than noted last year.

The banquet committee of the Toronto Master Plumbers' Association have decided to hold the banquet at McConkey's restaurant, King street.

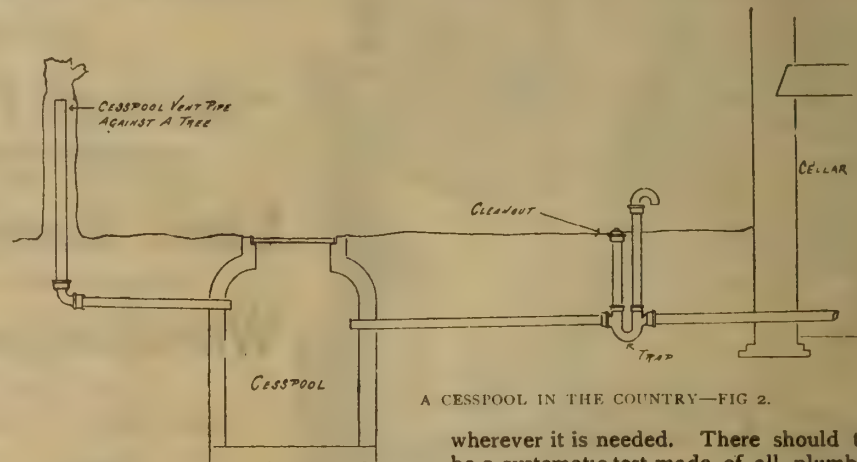
PLUMBING AND HEATING CONTRACTS.

The Bennett & Wright Co., Limited, Toronto, have contracts for plumbing in a house for R. H. Davies, Crescent road, Rose-dale; for heating in a large office block on

Church street, for the Freehold Loan and Savings Co., and for installing an automatic sprinkler system in the new factory

for The T. Eaton Co., Limited, Toronto.

A. Mackay & Co., Montreal, have the contracts for the plumbing, heating and ventilating six houses for Mrs. Mackay,



A CESSPOOL IN THE COUNTRY—FIG. 2.

Sherbrooke street; the plumbing, heating and ventilating two houses for Geo. Stroud, and the plumbing, heating and ventilating one house for James Green.

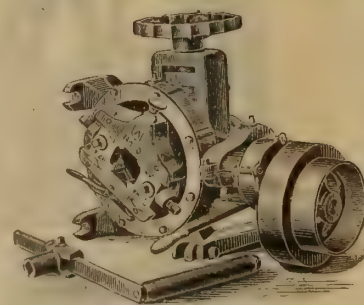
wherever it is needed. There should then be a systematic test made of all plumbing, each house being visited once in three or four years. The reduction of sickness would amply repay for the loss of a few \$5 fees and for the small increase in the general tax bill.—Toronto Star.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



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New York Office:
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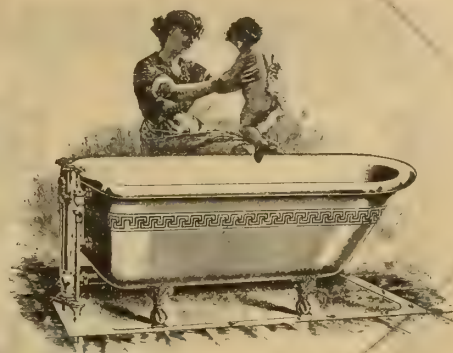
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The JMT Cushion-disc Faucets for Bath, Basin and Sink use.
Unique in Design.
Their use prevents that annoying vibration in pipes.



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Safford Steam ^{and} Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
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Also Galvanized Pipe and Fittings
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and all kinds of
Scrap Metals
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Used on all kinds of

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and on bearings where
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stand.

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WINDOW GLASS,
PREPARED PAINTS.**

The oldest and most reliable Prepared Paints on the market.

SOME OF THE DIFFERENT
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Each style made in several sizes;
used to make the following chains:

HALTER	SPREADER	PLUMBERS'
DOG	BIT	DOG COLLAR
TRACE	KEY	MARTINGALE
COW TIE	KENNEL	SASH
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TIE OUT	SAFETY	BENCH, Etc.

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SPECIAL CHAINS OF ALL KINDS.

Do not forget that we are the sole manufacturers
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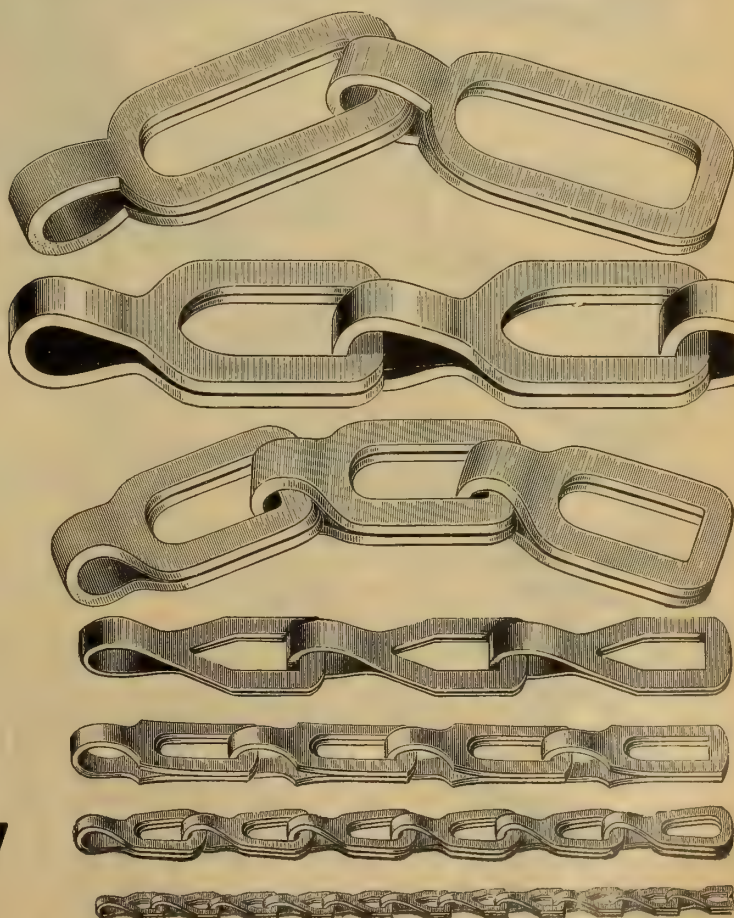
FORGED STEEL SNAPS

are also made exclusively by us.

ONEIDA COMMUNITY

NIAGARA FALLS, ONT.

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41 40 39 38 37 36 35 34 33 32 31 30 29 28 27

25 24 23 22 21 20 19 18 17 16 15 14 13 12 11

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OF PROGRESS IN SPOON MAKING SHOWING 51 POPULAR
PATTERNS MADE DURING THAT TIME.

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ROGERS
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VESTA COLUMBIA SAVOY LOTUS
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THE "1847" BRAND
is the production of
over half a century of
successful manu-
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imental stage was
passed years ago.

THE "1847" BRAND
is the standard of
quality. More dealers
keep this brand of
"Rogers" in stock and
advertise locally to sell
it than all others.

"1847 ROGERS BROS."

PATTERNS:

(51) Berkshire.	(38) Siren.	(25) Shell Tip.	(12) Silver.
(50) Savoy.	(37) Arcadian.	(24) Nevada.	(11) Olive.
(40) Louis XV.	(36) Assyrian Head.	(23) Crown.	(10) Columbia.
(48) Empire.	(35) Embossed.	(22) Princess.	(9) Spanish.
(47) Kings.	(34) Etruscan.	(21) Saratoga.	(8) Windsor.
(46) Portland.	(33) Linden.	(20) Lily.	(7) French Oval.
(45) Romanesque.	(32) Armenian.	(19) Persian.	(6) Antique.
(44) Moline.	(31) Lucerne.	(18) Gothic.	(5) Plain.
(43) Shell.	(30) Imperial.	(17) St. Charles.	(4) Threaded.
(42) Lotus.	(29) Newport.	(16) Beaded.	(3) Oval.
(41) Diana.	(28) Lorne.	(15) Tuscan.	(2) Fiddle.
(40) Assyrian.	(27) Laurel.	(14) Ivy.	(1) Tipped.
(39) Dundee.	(26) Vesta.	(13) Roman.	

MADE ONLY BY
MERIDEN BRITANNIA CO.

The patterns shown are a matter of history in spoon making, and stamp the fact of many years of successful manufacturing, 1847-1868, in much stronger terms than words.
Preserve this sheet. It will be found valuable for reference.

A REPRESENTATIVE IN AUSTRALIA.

Canadian enterprise is very strongly illustrated in the fact that The Toronto Silver Plate Co., Limited, is now catering for the Australian colony trade by direct representation. Mr. W. D. Birchall, who is so well and favorably known to the Canadian trade, sails for Australia, from Vancouver, on April 6., by the ss. Warrimoo. Mr. Birchall will thoroughly cover this market, including New Zealand and Tasmania. He takes with him several thousand dollars worth of samples. Some idea of the size of the shipment may be imagined by the weight, which is 5,000 lb., and the measurement, which is 317 cubic feet.

It was the first intention of Manager Gooderham to make the initial trip personally, but when it was found that it would take some six or seven month's time, this debarred his doing so. In discussing this matter with him he said: "To those who are so favorably financially situated as the company I represent the world is very small, and I propose to take it all in."

The Toronto Silver Plate Co., Limited, have already done a successful export trade with Japan and the West Indies.

A GROWING SADDLERY HARDWARE FIRM.

If the general assumption that growth is a result of enterprise and worth be correct, B. F. Ackerman, manufacturer of harness, horse collars, blankets, etc., and dealer in saddlery, harness, saddlery hardware, whips, etc., can claim a good share of these qualities.

Mr. Ackerman started in the harness trade in Norwood, Ont., in a small way, 25 years ago. In 1878, he removed to Port Perry, Ont. Here he commenced manufacturing, and, in 13 years in that town, his staff grew from one to 28 hands.

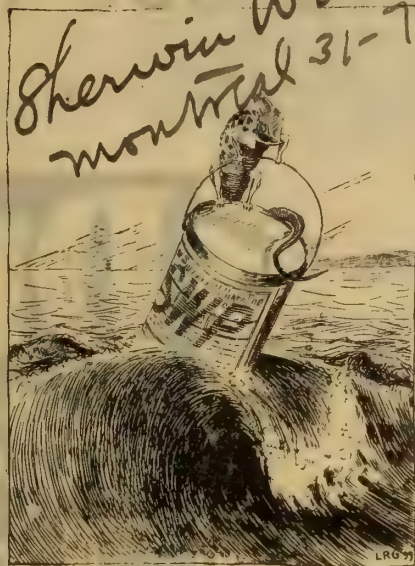
In 1891, the business was removed to Peterboro'. Here it has continued to increase, and, a short time ago, lack of room for the staff, which had grown to 55 hands, necessitated the building of a new factory, which affords fully twice the floor space of the old building.

GAS STOVES DEARER.

In sympathy with the advance in ordinary stoves, gas stoves have been marked up 10 per cent. in price. The manufacturers were induced by the same causes to make the advance, as they were in ordinary stoves, namely, increased cost of raw material.

THE KERRIGAN HARDWARE CO.

The name of The Kerrigan Purchasing Association, London, Ont., has been changed to The Kerrigan Hardware Co. The announcement of this change came too



On The Wave
Of Prosperity.

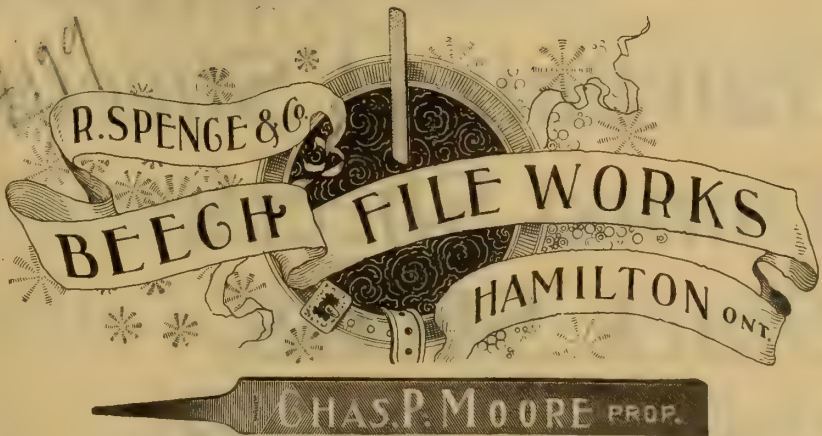
Business is good everywhere. People have money. Prosperity is in the air. Painting is brisk, and S. W. P. is in demand. It rides on the very crest of the wave. It has reached that position, because of its genuine worth — because it's a good honest paint, and does all that's claimed for it. It wears well. It looks well. It covers well, and is economical. It sells well because of these things.

Do you handle it?

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO



late to make the change in the firm's advertisement on the inside front cover of this issue.

NUT COAL DEARER.

Nut coal has advanced 25c. per gross ton, or 23c. per net ton, at Buffalo and bridges, the price now being at these points, \$4.75 per gross ton, or \$4.24 per net ton. Other sizes are unchanged in price.

All the past winter there has been more or less scarcity of small sizes of coal. At the present moment it is about as scarce as ever.

THEIR BUSIEST YEAR.

A year ago the James Warnock & Co.'s edge tool and carriage spring works came under the management of F. H. Hayhurst. The year has been the busiest and most successful in the firm's history. Every department of the factory has been severely taxed, necessitating working overtime steadily since last fall to keep up to the orders.

This fact, in the face of the severe competition in the lines made by the firm, speaks well for Mr. Hayhurst's management.

How to Get Them—Insist

Dealers getting out catalogues can have the free use of any cuts appearing in the "Dunlop Annual"—send to Head Offices, Lombard Street, Toronto.

Hang this card beside the bicycles you want to sell---and see how it helps you sell them.

Dunlop Tires may be had on every good wheel without extra charge—if you put it in the specifications when ordering from the manufacturers.



○ We carry in stock a full line of the following : ○

<i>Galvanized Sheets,</i>	<i>Antimony</i>
<i>Tinned Sheets,</i>	<i>Copper</i>
<i>Black Sheets,</i>	<i>Lead</i>
<i>Canada Plates,</i>	<i>Tin</i>
<i>Tinplates,</i>	<i>Zinc</i>

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin
164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

Bell Telephone Main 2523.

Cable "FRANKLIN."

W. J. WOODBURN & SON,

Manufacturers' Agents,

6 CORN EXCHANGE BLDG., MONTREAL.

English Agencies:

British and Continental
Silk Manufacturers' Association.
Alfred Nicholls & Company.
John Aston & Co.
Ravenhead Flint Glass Works.
Arthur Rudd & Co.
J. & C. W. Rowbotham.

Canadian and U. S. Agencies:

The Davis & Lawrence
Manufacturing Co.
The Macdonald Manufacturing Co.
The Baldwin Condensed Milk Co.
Marsland & Torrance.
G. T. Gorrie.
The F. F. Dalley Co., Hamilton.

J. EVELEIGH & CO.

Wholesale manufacturers of all kinds of

BELLOWS For Blacksmith
and Mining use.

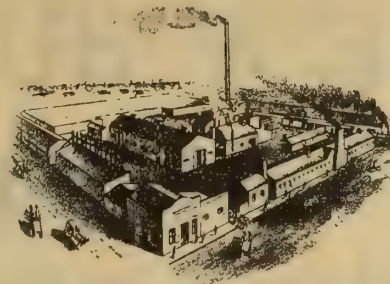
ALSO ALL KINDS OF TRAVELING REQUISITES.

SPECIAL ATTENTION
GIVEN TO COMMERCIAL
TRAVELERS'

TRUNKS

Further information on application.

245-247 St. James St. = MONTREAL.

The World
Renowned**"QUEEN"
CHURN**

IMPROVED
DOUBLE-LEVER and
ROLLER BEARING.

Before purchasing please
make a critical examination
of this Churn and we are
sure of the result.

(PATENT APPLIED FOR.)

Manufactured only by

The London and
Petrolia Barrel
Company

LONDON, ONTARIO



It does not require a "CRANK"
to work the improved "Queen"
Churn. Decidedly the Easiest
Working Churn ever offered to
the trade.

A Child can operate it.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon**Special Manila****Tiger****Standard**

These Twines will not bunch at the knotter,
and a Binder will run all day with them with-
out stoppage, thus saving time, annoyance
and an endless lot of trouble.

We pack our twine in bags of the size of ordin-
ary grain bags and are not ashamed to put
our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED,
Montreal.

JOHN WILSON

Sheffield, England.



Butchers' Knives, Steels, etc.

DORKEN BROS. & CO., Canadian Representatives,

MONTREAL.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
 Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
 Central Fire, Military and Sporting, American list. B.B. Caps, discount 45 per cent. Amer.
 Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
 Shot.
 Canadian, common, 7½ per cent.
 Brass Shot Shells, 55 and 10 per cent.
 Primers, Dom., 30 per cent.

Wads.
 Best thick white felt wadding, in ½-lb bags, 1 00
 Best thick brown or grey felt wads, in ½ lb. bags, 0 70
 Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
 Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
 Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
 Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
 Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
 Thin card wads in boxes of 1,000 each, 8 gauge, 0 60
 Chemically prepared black edge grey cloth wads, in boxes of 250 each—
 11 and smaller gauge, 0 60
 9 and 10 gauges, 0 70
 7 and 8 gauges, 0 90
 5 and 6 gauges, 1 10
 Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
 11 and smaller gauge, 1 15
 9 and 10 gauges, 1 40
 7 and 8 gauges, 1 65
 5 and 6 gauges, 1 90

Discount, 33½ per cent.
Anvils.
 Per lb., 0 10 0 12½
 Anvil and Vice combined, each, 4 50
 Wilkinson & Co.'s Anvils, lb., 0 09½
 Wilkinson & Co.'s Vices, lb., 0 09½ 0 10

Augers.
 Gilmour's, discount 50 and 10 p.c. off revised list.
 Hollow Stearn's, per dozen, 13 00 20 00
 Adjustable Stearn's, each, 4 50 6 50
 Post-hole, Vaughan's, each, 60 90
AXES.
 Splitting Axes, 5 25 5 50
 Chopping Axes—
 Single List, per doz., 6 00 12 00
 Double List, " 11 00 18 00
 R-nch Axes, 40 and 15 p.c.
 Broad Axer, 33½ per cent.

Bath Tubs.
 Zinc, discount, 3 90 4 00
 Copper, discount, 40 and 10 p.c. off revised list.
 Steel clad, 20 per cent. discount off revised list. Boxing extra

Anti-Friction Metal.
 "Tandem" A., per lb., 0 19
 "B., " 0 16
 "C., " 0 10½
 "Monarch" 1., " 0 21
 "2., " 0 15
 "3., " 0 10
 "Canadian" " 0 08½
 Magnolia Anti-Friction Metal, per lb., 0 25
 No Name Metal, " 0 15
 Mystic Metal, " 0 10
 F. O. B. New York or Chicago.

Bells.
 Hand.
 Brass, 60 per cent.
 Nickel, 55 per cent.
Door.
 Gongs Sargent's, 5 50 8 00
 "Peterboro", discount 50 per cent.
 "Cow."
 American make, discount 66½ per cent.
 Canadian, discount 45 and 50 per cent.
 Farm.
 American, each, 1 25 3 00

House.
 American, per lb., 0 35 0 40
Bellows.
 Hand, per doz., 3 35 4 75
 Moulders, per doz., 7 50 10 00
 Blacksmiths', discount 60 per cent.

Belting.
 Extra, 50 per cent.
 Standard, 50 and 10 to 50, 10 and 5 per cent.
 Agricultural, 60 and 10 p.c.

Bits.
 Auger.
 Gilmour's, discount 50 and 10 per cent.
 Rockford Common, 70 to 70 and 10 per cent.
 "Perfection, 50 and 10 per cent.
 Jennings' Gen., net list.

Car.
 Gilmour's, 47½ to 50 per cent.
 Expansive
 Clark's 40 per cent.
 Gimlet.
 Clark's, per doz., 0 65 0 90
 Diamond, Shell, per doz., 1 00 1 50
 Nail and Spike per gross, 2 25 5 20

Blind Rollers.
 Annex, per doz., 1 25 1 75
 Mascott, " 1 35 1 85
 Erminie, " 1 00 0 90

Blind and Bed Staples.
 All sizes, per lb., 7½ 0 12

Bolts.
 Carriage, 5 1-16 and under, dis., 60 and 5 p.c.
 ¾ and larger, dis., 62½ per cent.
 Tire, dis., 70 and 5 per cent.
 Stove dis., 70 per cent.
 Sleighshoe, 80 per cent.
 Machine, all sizes, 60 and 15 per cent.
 Blank, 60 and 15 per cent.
 Coach Screws, dis. 75 and 10 p.c.
 Plough bolts, 60 p.c.
 Bolt ends 60 and 15 per cent.
 Nuts, square, 4½.
 "hexagon, 5c.
 Tapping nuts, 70 per cent.

Boot Calks.
 Small and medium, per M., 4 50
 Small heel, per M., 4 25

Broilers.
 Light, dis., 65 to 67½ per cent.
 Reversible, dis., 65 to 67½ per cent.
 Vegetable, per doz., dis. 37½ per cent.
 Henis, No. 8, " 6 00
 Henis, No. 9, " 7 00
 Queen City " 7 50 0 00

Butchers' Cleavers.
 German, per doz., 6 00 11 00
 American, per doz., 12 00 20 00

Building Paper, Etc.
 Plain building, per roll, 0 30
 Tarred lining, per roll, 0 40
 Tarred roofing, per 100 lb., 1 45
 Coal Tar, per barrel, 3 75
 Pitch, per 100-lb., 0 60

Rail Rings.
 Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.
 Brass.
 Wrought Brass, dis., 10 p.c. revised list.

Cast Iron
 Joose Pin, dis. 70 per cent.
 Wrought Steel.
 Fast Joint, dis. 70 and 10 per cent.
 Loose Pins, dis. 70 and 10 per cent.
 Berlin Bronzed, dis. 70, 70 and 5 per cent.
 Gen. Bronzed, per pair, 0 40 0 65

Cards.
 Horse per doz., 0 60 1 00

Carpet Sweepers.
 Bissell, per doz., 22 50
 "World, " 21 75
 "Daity, " 24 00
 "Star, " 18 00
 "Crown Jewel, per doz., 29 00
 "Grand Rapids, " 24 0 33 00

Carpet Stretchers.
 American, per doz., 1 00 1 50
 Bullards, per doz., 6 50

Cartridges.
 (See Ammunition.)

Castors.
 Bed new list, dis. 55 to 57½ per cent.
 Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
 Nos 31 and 32, per gross, 8 50 9 50

Cement.
 Canadian Portland, 2 65 2 90
 English " 2 80 3 00
 Belgium " 2 50
 Canadian hydraulic, 1 00 1 10
 Figures are for barrel lots.

Chalk.
 Carpenters Colored, per gross, 0 45 0 75
 White lump, per cwt., 0 60 0 65
 Red, " 0 05 0 06
 Crayon, per gross, 0 14 0 18

Chisels.
 Socket, Framing and Firmer.
 Broad's, dis. 70 and 5 per cent.
 Warnock's, dis. 40 and 10 per cent.

Churns.
 Delivered from stock in Ontario: No. 0, \$2.85
 No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock, Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.
 Axle dis. 65 per cent.

Closets.
 Washout, plain, 3 25
 "embossed, 3 50
 Connections, 1 10

Compasses, Dividers, Etc.
 American, dis. 62½ to 65 per cent.

Cradles, Grain.
 Canadian, dis. 20 per cent.

Dies.
 Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
 Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
 Torrey's Rod, per doz., (15 p.c.) 2 00
 Coil, per doz., 0 88 1 60
 English per doz., 2 00 4 00

Draw Knives.
 Broad's, dis. 75 per cent.
 Warnock's, dis. 50 and 10 per cent.

Drills.
 Hand and Breast
 Millar Falls, per doz. net list.

DRILL BIT.
 Morse, dis. 37½ to 40 per cent.
 Standard, dis. 50 to 55 and 55 per cent.

ELBOWS.
 Stovepipe.
 Per doz., 85 1 70

FILES.
 Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
 Black Diamond, 50 and 10 to 60 per cent.
 Kearney & Foote, 60 and 10 per cent. to 60. 10 10.

Nicholson File Co., 50 and 10 to 60 per cent.
 Jowitt's, English list, 25 to 27½ per cent.
 Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
 Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREZZERS.
 Ice Cream.

White Mountain, 1 to 25 qt., 1 35 13 50
 Arctic, dis. 50 p.c.
FRY PANS.
 Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
 Henis', per doz., 3 25 3 50
 Shepard's Queen City, dis. 15 per cent.

GAUGES.
 Marking, Mortise, Etc.
 Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
 Winn's. Nos. 26 to 33, each, 1 65 2 40
GLASS.
 Window.
 Box Price.

Size United Inches.	Star.		Double Diamond	
	Per 50 ft.	Per 100 ft.	Per 50 ft.	Per 100 ft.
Under 25	1 80	3 50	5 50	
26 to 40	1 95	3 80	6 10	
41 to 50		4 20	6 75	
51 to 60		4 40	8 00	
61 to 70		4 80	8 75	
71 to 80		5 20	9 75	
81 to 85		5 80	10 75	
86 to 90		6 80	13 00	
91 to 95			14 75	
96 to 100			16 75	
101 to 105			18 75	
106 to 110			22 75	

HALTERS.
 Rope ¾ per gross, 8 25 8 50
 "½ " 9 25 9 50
 "⅓ " 11 00 11 25
 Leather, 1 in., per doz., 3 87½ 4 00
 "1½ in., " 5 15 5 25
 Web, — per doz., 1 87 2 40

HAMMERS.
 Nail
 Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27½ per cent.

Tack.
 Magnetic per doz., 1 10 20
Sledge.
 Canadian, per lb., 0 07½ 8½

Ball Peen.
 English and Can., per lb., 0 22 25

HANDLES.
 Axe, per doz., net, 1 50 2 00
 Store door, per doz., 1 00 1 50
 Chest, per doz. pairs, 0 40 2 50

Fork.
 C. & B., dis. 45 per cent. rev. list.

Hoe.
 C. & B., dis. 45 per cent. rev. list.

Saw.
 American, per doz., 1 00 25

Plane.
 American per gross, 3 1
 Hammer and Hatchet.
 Canadian, 45 per cent.

Cross-Cut Saw.
 Canadian, per pair, 0 13½ 0 20

HANGERS.
 Door, 4 and 5 inch, per pair, 0 40 50
 Lanes, 62½ per cent.

HATCHETS.
 Canadian, dis. 40 to 42½ per cent.

HINGES.
 Blind, Parker's, dis. 60 and 10 to 65 per cent.
 "Shepard's Noiseless, dis. 60 per cent.
 "Buffalo, dis. 60 to 70 p.c.
 Heavy T and strap, 4-in., per lb., 0 05
 "5-in., " 0 01½
 "8-in., " 0 04
 "10-in., " 0 01¼
 "10-in., " 0 04

crew hook and hinge—
 6 to 12 in., per 100 lbs., 3 75
 14 in. up, per 100 lbs., 3 00

Spring, Per gro. pair, 8 50

HOES.
 Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
 Planter, per doz., 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		

Wire.

Hat and coat, dis. 60 to 60 and 10 p.c.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"O" brand, 50 p.c. dia.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		

Light, all sizes.	3 45	
Extra light	4 60	
Toe weight (steel)	5 60	
If shipped from factory, Montreal, 10c. per		
leg less.		

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per		
doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass, "	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk, "	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per oz.	1 75	7 50
Cabinet.		

Padlock.

English and Am., per doz.	50	6 00
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	1 60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:	Out.	Wire.
24 and 3d.	\$2 85	\$3 55
3d.	2 50	3 20
4 and 5d.	2 25	2 95
6 and 7d.	2 15	2 85
8 and 9d.	2 00	2 70
10 and 12d.	1 95	2 65
16 and 20d.	1 90	2 60
30, 40, 50 and 60d. (base).	1 85	2 55
Steel Out Nails 10c. extra		
Heads and finishing nails, special sizes,		
80 p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross.	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 55 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety	0 16½	
American w. w.	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil		
can, with pump, 5 gal.	0 00	9 00
per doz.		
Zinc and tin, dis. 50, 50 and 10.	1 25	3 50
Copper, per doz.	1 50	3 50
Brass.		
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis,		
Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½		
to 4	100 00	
No. 58 Hand Machine, range 2½		
to 6	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 37½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PLUMBS AND LEVELS.

S.R. & L. Co., dis. 70 and 5 to 70 and 10 p.c.		
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PULLEYS.

Hothouse, per doz.	0 55	1 00½
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS.

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURS.

Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 65 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 60 p.c.		
Black M. Rivets (Steel), 60 p.c.		
Black and Tinned Rivets, 60 and 5 to 65 and		
p.c.		
Extras on Iron Rivets in 1-lb. cartons, ½c.		
per lb.		
Extras on Iron Rivets in ½lb. cartons, 1c.		
per lb.		
Copper Rivets & Burs, 37½ p.c. Jis., and		
cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in		
½lb. cartons, 1c. per lb.		
Burs, iron or steel, 50 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	9 ¼	10
¾ in.	9 ¾	10½
½ and 5-16 in.	10 ¼	11
Cotton		13
Russia Deep Sea		14½
Jute		7½
Lath Yarn	6¾	8¾
New Zealand Rope.		

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 55	
N.P., per set.	75	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Diston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 60	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

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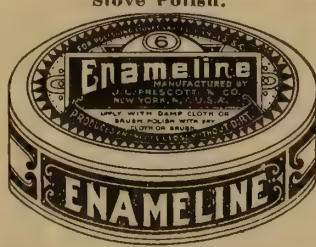
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Turkey	0	
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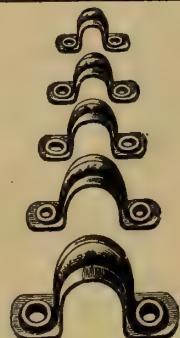
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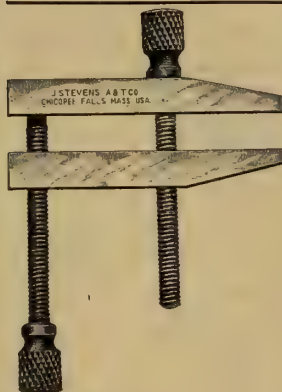
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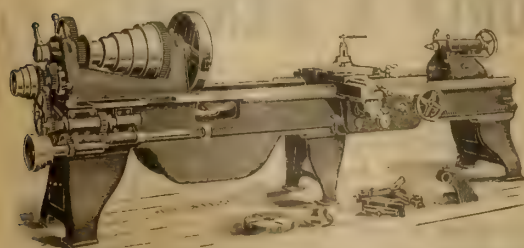
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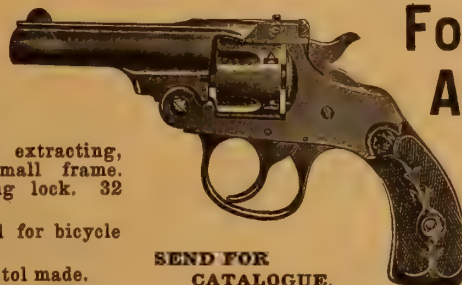
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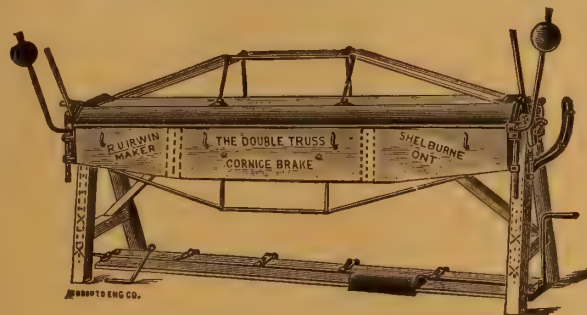
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The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, APRIL 1, 1899.

NO. 13



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Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

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local mills and factories. Special discounts to the trade.
Write to-day!

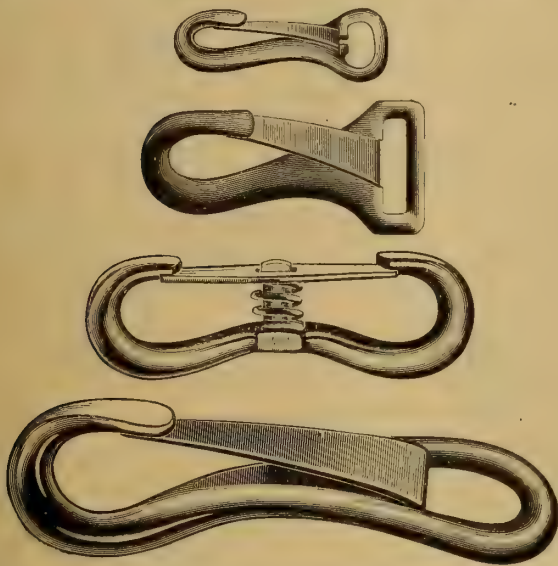
DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

STEEL SNAPS.



We would call your attention particularly to our new

1/2-INCH or BAG SNAP.

Sample sent on application.

ONEIDA COMMUNITY, LIMITED
NIAGARA FALLS, ONT.

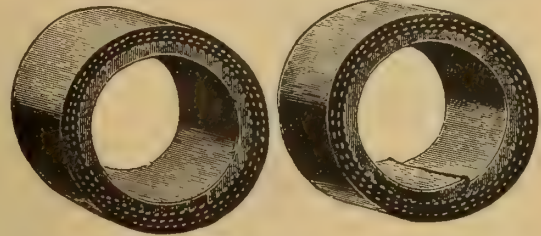
ALL OUR Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

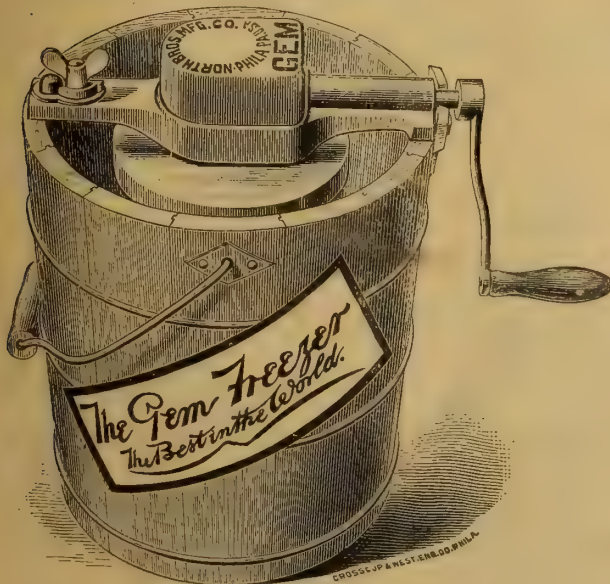
THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



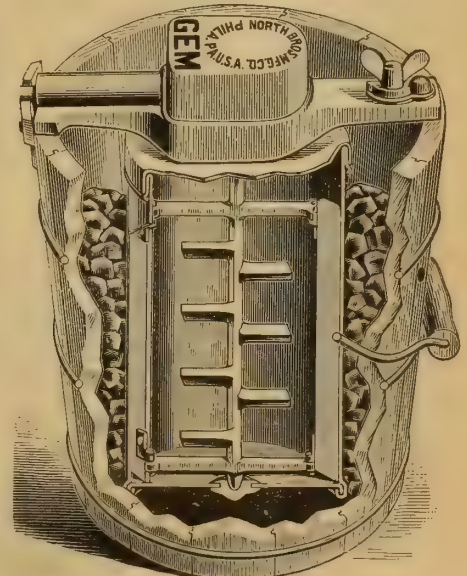
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall out.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

CATALOGUES mailed free
...on application.

Philadelphia, Pa.

SOLD BY LEADING JOBBERS EVERYWHERE.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

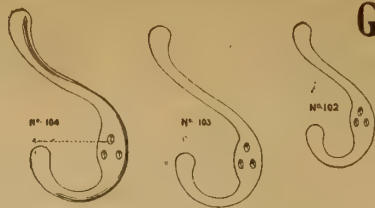
LIMITED
DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.



Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,
Canadian Agent, 220½ Board of Trade, MONTREAL.



Have you seen our

1899
Catalogue of

Brushes

Fifteen pages of new lines at prices that defy competition.

Do not fail to get our list and discounts before placing your orders.

Meakins, Sons & Co.,

(13)

313 St. Paul St., MONTREAL.

Meakins & Sons,

King St. East, HAMILTON, ONT.



David Maxwell & Sons

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

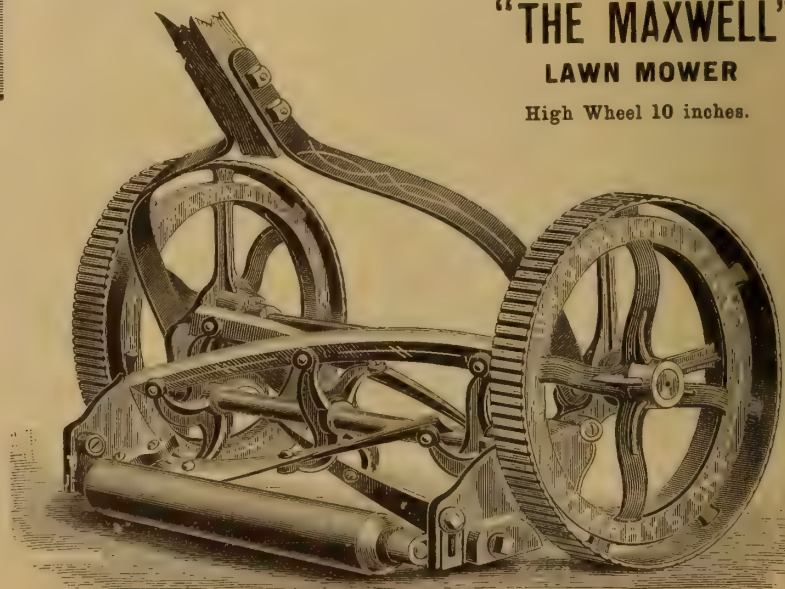
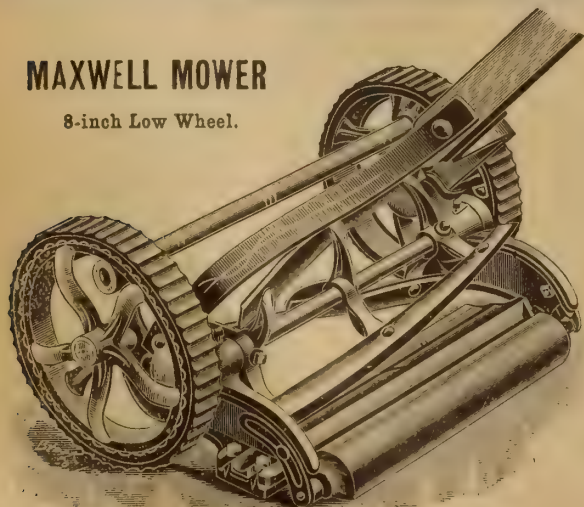
"THE MAXWELL"

LAWN MOWER

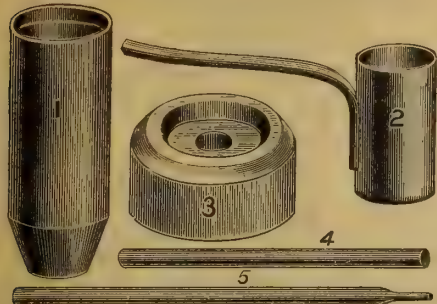
High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

Lamplough & McNaughton, Montreal

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited
BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines. All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

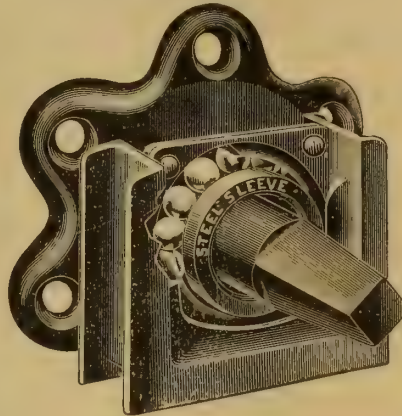
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.



This is our Latest Stand, with
Ball Bearings.

HAMILTON, CANADA

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

Successful Sellers

QUICK MEAL

GASOLINE AND BLUE FLAME
OIL STOVES

OXFORD GAS RANGES

The "Wickless" Quick Meal Blue Flame Oil Stove is a '99 departure that promises phenomenal success. The oil is fed to the burner drop by drop and the flame can be perfectly regulated. The parts simply sit one upon the other, so there is no unscrewing needed for cleaning purposes.

We are Sole Canadian Agents for Quick Meal Stoves.

Catalogues of our Oxford Gas Ranges and the Quick Meal lines give full information about the wide assortment of sizes and styles on hand.

WRITE FOR THEM

THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.



○ We carry in stock a full line of the following : ○

<i>Galvanized Sheets,</i>	<i>Antimony</i>
<i>Tinned Sheets,</i>	<i>Copper</i>
<i>Black Sheets,</i>	<i>Lead</i>
<i>Canada Plates,</i>	<i>Tin</i>
<i>Tinplates,</i>	<i>Zinc</i>

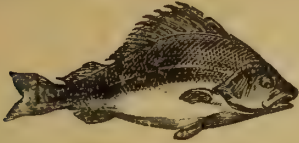
M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

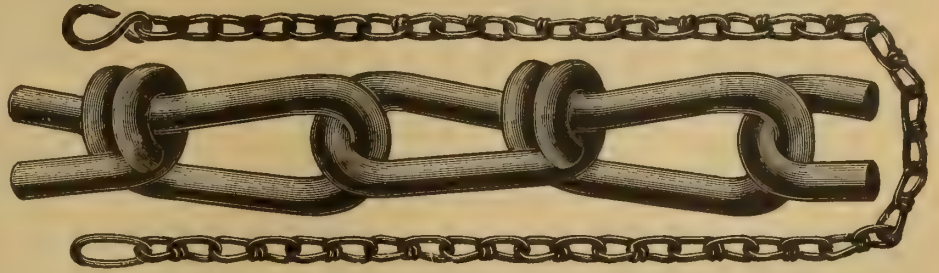
Fishing Tackle.**ALLCOCK'S STAG BRAND**

TRADE MARK

The Allocock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

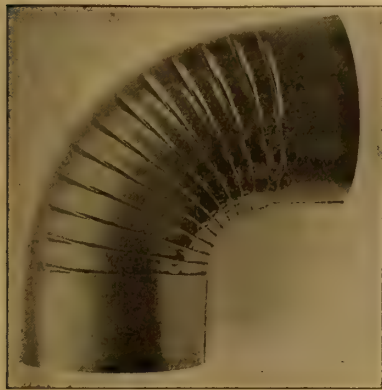
Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

IMPROVED STEEL WIRE TRACE CHAINS.

Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

**ELBOWS**

Our Standard Pleated Elbows are made on our Patent Elbow Machine (Patented U. S. and Canada) and this year will be made from Blue Steel giving dark finish. We are also introducing a new feature in crating these goods that will ensure safe delivery. These are the elbows that fit any pipe, do not catch the dust, or impede the draft; made strong and neat.

The THOS. DAVIDSON MFG. CO., Limited
MONTREAL.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

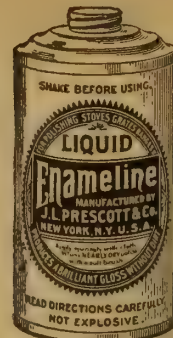
Consumers Cordage Company, LIMITED, Montreal.

Enameline

The Modern STOVE POLISH



PASTE.



LIQUID.



CAKE.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.

Milk Can Trimmings

Kemp's Roll-Rim Milk Can Bottoms

The Roll-Rim has no sharp turns; therefore, the grain of the metal is not broken, and, having a broad wearing surface on the bottom, it cannot damage floors.



It is the neatest and strongest in appearance, and is supplied with either Convex or Concave Bottoms.

Ample space is left between the bottom and the hoop for the insertion of the body of the Can.

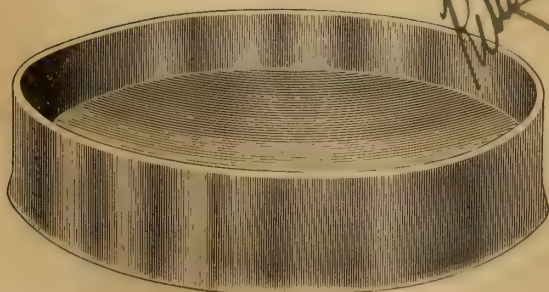
By examining the cut, anyone can readily see that this style of construction makes it the strongest Bottom ever produced.

They do not cost any more than inferior Bottoms.

If you want to keep ahead of your competitors, use Kemp's Roll-Rim Milk Can Bottoms.

The Iron Clad Trimmings are made the same as the Broad Hoop, and differ from them only in having a narrower and thicker hoop, which does not require the Roll-Rim, and therefore can be sold cheaper.

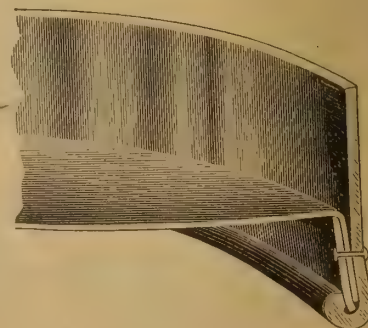
For Durability and Finish Our Trimmings are Unequalled.



Tinned Iron, cut to size, in stock at right prices. We carry a full line of Galvanized Iron, Canada Plates, Tin Plates and Black Iron always in stock. Also Sheet Zinc, Pig Tin, etc.

**Kemp
Manufacturing Co.**

TORONTO, CANADA.





President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN Toronto.

THE MacLEAN PUBLISHING CO.
Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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Published every Saturday.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

**A POINT IN COMMERCIAL
PROCEDURE.**

A TORONTO broker recently had an interesting experience in commercial procedure.

A firm in another city wrote him quoting a certain price for a certain article, the offer to be good till a certain hour two days later. Certain weights were also prescribed.

The broker sold the goods at the price named, but the purchaser desiring weights other than those named in the offer, the former telegraphed the holders saying he had sold the goods, but asked if they would not accept the weights named by the purchaser. An answer was received by wire not only rejecting the offer but withdrawing the original one as well, notwithstanding

that it did not expire by time limit for nearly 24 hours.

Having sold the goods the broker felt somewhat annoyed, but, on seeking legal advice, he was informed that having made a counter offer, differing so little as it did from that made by the holders of the goods, that the original offer no longer had effect.

It was pointed out to him by his legal adviser that if A offers B, say, 200 lb. of a certain article at a certain price, that the offer would no longer hold good if B advised that he would take at the price named even 1 lb. less than the total quantity described in the original offer.

EXTENSION OF ELECTRIC ROADS.

Electric railway systems running into the country out of Toronto are likely in the near future to be materially extended if the efforts of the Toronto Railway Co. do not prove abortive.

At present an electric road runs from the western part of the city to Long Branch, a summer residential resort, seven or eight miles distant. This road it is proposed to extend to Oakville, making the total length of the line over 22 miles.

Running from the eastern part of the city there is an electric road of only four or five miles in length. This it is proposed to extend to Oshawa, 34 miles distant.

If these schemes are carried out it will mean the building of between 40 and 50 additional miles of electric railway.

Next to building the roads, the chief thing now to be done is the securing of right-of-way through the different municipalities in the line of the proposed routes. No difficulty, however, may be anticipated in that respect.

THE CONSUMPTION OF PIG IRON.

THERE has been no noteworthy change in the heavy iron situation during the past week, but the firm feeling is fully retained, and there does not seem to be any prospect of abatement either in the immediate or moderately near future.

The advance over the corresponding prices last year, at producing centres in the United States, has been an abnormal one. On Monday, for instance, No. 1 pig at Pittsburg stood \$16 against \$11 in 1898. Bessemer iron is \$5, steel billets almost \$10, and steel bars \$8 above where they stood at this time last year.

In Great Britain, Scotch warrants are 8s. above where they were in 1898, and Middlesboro, No. 3, 8s. 3d. higher than last year. This testifies to the world-wide aspect of the boom in iron, for, though no recent prices at continental centres are at hand, the latest figures reflected proportionate strength, in sympathy with the situation in Great Britain and on the continent.

The statistical position of primary crude material favors strength. The furnaces in the United States, though they have increased their output lately, are not much in excess of last year.

In February, 1898, their weekly capacity with 193 in blast was 234,430 tons. At present, with 195 furnaces in operation, it is only 237,639, or an increase of 3,000 odd tons.

The consumption of pig iron must be enormous at the present time on the continent, as there has been a decrease in the American stocks of pig, during February, of 46,431 tons, the stock on March 1, being 416,473, against 462,904 on February 1.

THE TURNOVER TAX BILL.

BUSINESS men in Toronto have, during the past week, been greatly interested in a bill which was before the Legislature of Ontario, having for its object the taxing of the turnover of retail merchants.

The object of the bill, although not stated in its preamble or anywhere else, was the regulation of departmental stores.

The bill passed the municipal committee a few days ago without any interest being taken in it, but, after it had passed that committee, opposition arose to it from not only the departmental stores, but from wholesale merchants and manufacturers as well, and, at the request of the board of trade, the matter was again brought up before the committee on Wednesday morning last. About 200 business men were present, representing the different business interests in the "Queen City."

The bill had, however, in the meantime, been altered a little, although the author of it, Mr. German, declared that in principle it was the same as before. By the change made, a schedule was added, which suggested the following rates :

On turnovers up to \$50,000 1-10 of 1 per cent.; up to \$100,000 2-10 of 1 per cent.; up to \$400,000 3-10 of 1 per cent.; from \$400,000 to \$750,000 4-10 of 1 per cent.; from \$750,000 to \$1,000,000 $\frac{1}{2}$ of 1 per cent.; from \$1,000,000 up to \$1,500,000 7-10 of 1 per cent.; from \$1,500,000 up to \$2,000,000 9-10 of 1 per cent.; from \$2,000,000 to \$3,000,000 1 per cent.

The levying of these rates was to be left in the hands of the different municipal authorities and were optional.

One of the objections to the bill, stated by those who were opposed to it, was that there was nothing in the measure defining a retailer. It was pointed out that this would lead to no end of trouble on account of the fact that several concerns did a jobbing as well as a retail trade. Another objection was that it would be placing too much power in the hands of incompetent municipal councils.

After a good deal of discussion it was decided to leave the bill over until the next session of the Legislature, with the understanding that, in the meantime, a Committee

of the House be appointed to investigate the question of commercial taxation.

It is probably just as well that final action in regard to the bill should be deferred for another year. The measure, as it was drawn up, was undoubtedly somewhat crude, and, at any rate, the business men will, between now and the time the matter will come up for consideration, be able to give the question more study than they have heretofore, which cannot but tend to make whatever law is finally adopted more perfect than it otherwise would be.

THE NEW EAVETROUGH PRICE LIST.

HARDWARE AND METAL the other day announced an advance in the price of eavetrough. The trade has now issued a list giving the new prices in detail. The following is the list :

O. G. Pattern—8-inch girth, \$2.80 per 100 feet; 10-inch do., \$3.50; 12-inch do., \$4; 15-inch do., \$5.25.

O. G. High Back Pattern—12-inch girth, \$4 per 100 feet; 15-inch do., \$5.35; 18-inch girth, \$6.35.

Half Round Pattern—7-inch girth, \$2.75 per 100 feet; 8-inch do., \$2.95; 10-inch do., \$3.60; 12-inch do., \$4.15; 14-inch do., \$5; 15-inch do., \$5.25; 16-inch do., \$5.60.

Style "A" O. G. Round Head—10-inch girth, \$3.60 per 100 feet; 12-inch girth, \$4.10; 15-inch do., \$5.45.

Style "B"—10-inch girth, \$3.60 per 100 feet; 12-inch do., \$4.10; 15-inch do., \$5.45.

Style "C"—10-inch girth, \$3.60 per 100 feet; 12-inch do., \$4.10; 15-inch do., \$5.45.

Style "D"—15-inch girth, \$5.55 per 100 feet; 18-inch do., \$6.55.

Style "E"—10-inch girth, \$3.60 per 100 feet; 12-inch do., \$4.10; 15-inch do., \$5.45.

Eavetrough Mitres—7-inch, 8c.; 8-inch, 10c.; 10-inch, 12c.; 12-inch, 14c.; 14-inch, 16c.; 15-inch, 18c.; 16-inch, 20c.; 18-inch, 25c.

The foregoing prices apply to trough sold in eight foot lengths. All ten foot trough is to be charged for at 10c. per 100 ft. additional. No allowance is to be made for freight. Whenever troughing is crated, the crating shall be charged for on the following basis : Crating 300 ft. or less 30c. Five cents for each additional 100 ft. or fraction thereof is added. In no case is the cash discount to exceed 3 per cent.

NEW WIRE LIST.

Makers have decided upon another advance in smooth steel wire.

The change calls for a rise of 5 to 10c. in the base price, which is now \$2.45 per 100 lb. for Nos. 2 to 9. The other regular numbers of the list call for the following increases : No. 10, 6c. advance on base ; No. 11, 13c. on base ; No. 12, 20c. on base ;

No. 13, 35c. on base ; No. 14, 45c. on base ; No. 15, 60c. on base, and No. 16, 75c. on base per 100 lb.

Extras are as follows : Coppered wire, per 100 lb., 55c.; tinned wire, \$2 ; oiling, 10c.; special hay baling, 30c.; spring wire, 85c.; best steel wire, 75c.; bright, soft drawn, 18c.

A BLOW AT TRADING STAMPS.

LEGISLATION having for its object the regulation of trading stamp and coupon companies is advancing nicely in the Ontario Legislature, a bill with this object in view having been almost unanimously adopted by the Municipal Committee of the Legislature on Tuesday last.

The bill is described as a bill "for regulating and licensing persons exercising the calling or engaged in the business of selling or otherwise disposing of trading stamps, or coupons, or dealing in gift schemes," and empowers municipalities to fix certain maximum sums which these shall pay for a license in order to carry on business therein.

In cities having a population over 50,000, a tax of \$1,000 may be imposed ; in cities having a population of 50,000 or under, \$500, and towns having a population of 5,000 or over, \$250.

Before the bill was finally adopted by the committee, this clause was added : "This is not to apply to or prevent merchants or others from making gifts to their customers or others purchasing from them as a condition of their purchasing goods up to a certain value."

Before the bill becomes law it will, of course, have to pass the Legislature.

A FIRM GLASS MARKET.

Hardware merchants throughout the country who placed import orders for window glass when it was at the \$2.80 basis, may consider themselves fortunate, for the European market has so advanced that it is anticipated the arrival of the new stocks will not reduce the present stock prices which are at the \$3.50 basis.

If the jobbers had to purchase on the European markets now, prices would of necessity advance further, but most of them bought at the right time, so the probability is that the stock price of window glass will remain about where it is for some time to come.

BINDER TWINE AGAIN ADVANCES.

Prices of binder twine have again advanced in the United States, present quotations in carload lots at the different mills being: Pure manila, 10½c.; manila, 10c.; standard and sisal, 9½c., and present indications point towards much higher prices in the near future.

The latest advices from the different mills in the United States state that the entire output of most of the mills up to the time of harvest has been sold, and the consumption of twine is likely to be very large, judging by the purchases which have been made to date.

General cordage has also advanced in the United States and the prices ruling are about on a par with present Canadian prices, with a protection of 25 per cent., a fact which has not occurred for years.

The hemp market is decidedly firm, with a scarcity of the better qualities of fibres.

Good current manila hemp is quoted at 9c. and good raw sisal fibre at 8c., both in large quantities.

AN ADVANCE IN WOOD SCREWS.

Another change in the discount on wood screws is announced this week. The notice

of the change bears date of March 27, and goes into effect to-day (Saturday). It is just one month ago that the last change was made. The present change means an advance of about 15 per cent. in prices. The discounts are now as follows: Flat head, bright, 82½ and 5 per cent. off the list; round head, bright, 75 and 5 per cent. off the list; flat head, brass, 75 and 5 per cent. off the list; round head, brass, 67½ and 5 per cent. off the list; flat head, brass, 67½ and 5 per cent. off the list; round head, bronze, 67½ and 5 per cent. off the list.

CORRUGATED IRON PIPES DEARER.

The high price of galvanized iron sheets has as last exerted its influence on corrugated pipes, as the following list of prices just issued shows:

2-in. round or corrugated pipe per 100 feet	...\$3.60
3-in. " " " "	... 4.65
4-in. " " " "	... 6.00
5-in. " " " "	... 7.75
6-in. " " " "	... 9.35
2-in. corrugated elbows per doz.	\$1.15 shoes 1.40
3-in. " " " "	1.40 " 1.90
4-in. " " " "	1.95 " 2.45
5-in. " " " "	2.45 " 2.85
6-in. " " " "	2.85 " 3.60
2-in. " " " "	hooks per 100..... 3.50
3-in. " " " "	..... 4.50
4-in. " " " "	..... 6.00
5-in. " " " "	..... 7.50

TOO BUSY TO SUPPLY WIRE.

On account of the high price of wire rods and wire in the United States, some of the Canadian manufacturers of wire nails have recently been endeavoring to get supplies from the British and German markets, but they learn that from neither of these markets could they get supplies on account of the activity there.

The following from an English paper just to hand is, therefore, perhaps of more than usual interest:

Until within a very recent period English wire manufacturers had to contend with the keenest possible competition on the part of their German rivals, which was gradually ousting them from many important markets. A complete change has, however, come over the position; not only are the German manufacturers so busy that the previous low-priced competition has practically ceased, but they are in this difficulty, that in Germany just now there is an absolute scarcity of raw material. Notwithstanding large purchases of basic iron in England to supply the deficiency, some of the leading works are frequently stopped for a couple of days during the week because they cannot obtain the requisite material. A representative of one of the largest German firms remarked the other day that it would be a long time before German wire competition would again be felt in this country.

When a man falls heir to a competence, he is foolish if he falls into indolence.

How to Get Them—Insist

Dealers getting out catalogues can have the free use of any cuts appearing in the "Dunlop Annual"—send to Head Offices, Lombard Street, Toronto.

Hang this card beside the bicycles you want to sell---and see how it helps you sell them.

Dunlop Tires may be had on every good wheel without extra charge—if you put it in the specifications when ordering from the manufacturers.

DUNLOP
Detachable
TIRES
TORONTO.
THESE ARE THE
ONLY TOOLS YOU'LL NEED.

THE MIGRATION OF INDUSTRIAL CENTRES.

By H. Coleman.

AN interesting article appeared last year in Cassier's Magazine on the effect electricity is likely to have on the city of the future. Owing to the direct conversion of natural forces—as at Niagara—into electricity, the geographical distribution of the cities of the world will, it is suggested, in time, be changed.

No longer will there be any special advantage in nearness to a coalfield. Electric waterfalls will be the grand desideratum, as the power for our industries will be produced in the mountains, while the cities will be scattered far and near in the valleys. The writer in Cassier's develops the suggestion of Lord Kelvin, that the Highlands of Scotland may become industrially more important to Great Britain than the comparatively-flat Midlands. Switzerland, Norway, Sweden, the Austrian Tyrol and Transylvania may become the industrial centres of Europe, owing to their superiority in water-power. The Himalayas feed the Ganges, the Indus, the Brahmaputra and the Oxus by waters which take innumerable giant leaps down the mountain-side. The development of this water-power is no longer visionary. The Falls of Zambesi, too, are, perhaps, even more within the range of civilization to-day than any part of Montana, for example, in the United States, was 30 years ago.

How far-reaching these effects will be may be well imagined when we call to mind what vast changes were wrought in this country by the evolution from wood and charcoal to coal, as the medium in iron smelting, for not only was the process changed, but also the localities of the industry.

What a contrast the primitive period must have presented to the present surroundings of the smelting and manufacture of iron! Dr. Wynter says that, in the time of Elizabeth, the great seat of the iron manufacture was a perfect paradise, contrasted with its appearance at present. The two pictures could scarcely be more unlike than the so-called "Black Country" around Wolverhampton—that pandemonium on earth in which everything like vegetable life is blasted, and the whole region for scores of square miles converted into a heap of cinders, over which rests a canopy of perpetual smoke, lighted up at night by the lurid glare of countless fires, reminding one of a country being devastated by war. Nothing, we say, can present a greater contrast with this scathed and blasted landscape, than the location of the old bloomeries, situated amid deep forests of oak and beech, the motive power to work the blast

being fed, not by sulphuric flames but simple water collected into dams or picturesque lakes, and turning a merry mill-wheel. At the time we mention, half the whole product of iron in these islands was made in Sussex, Kent, and Surrey. But wood was not inexhaustible, and public opinion, even in Elizabeth's reign, began to denounce the iron works as monsters, likely to eat up the whole woodland districts of the country, and to leave the people to perish of cold in the winter, wood then being the only fuel used.

In the year 1581, a number of enactments were passed, restricting the number of works in the counties before mentioned, and, before long the trade took flight. We can well imagine the alarm of our forefathers at the disappearance of their oaks and beeches, as we are told that the making of every ton of pig iron required four loads of timber.

The restrictive laws of Elizabeth and James, however, were less destructive to the furnaces than the civil wars which broke out in the reign of Charles. When Parliament got the upper hand, all the ironworks of the Royalists were destroyed by the forces of Sir William Waller, and such a blow was dealt to the manufacture that England, from an exporting country, began to import large quantities of iron from abroad. In 1740, there were only 59 furnaces in all England; and the last specimens of charcoal iron were the cast iron railings surrounding St. Paul's cathedral, the major portion of which contract was executed at Lamberhurst, near Tunbridge Wells.

These untoward circumstances, however, by no means meant the destruction of the trade in this island. As early as 1620, the practice of smelting iron with pit coal was begun by one of the Dudleys, but lacking the powerful blast furnaces which enabled later ironmasters to establish the use of coal as a smelting material. The well-known establishment of Coalbrookdale, whilst under the management of Richard Reynolds, of Bristol, had the honor of having first made practicable the smelting of iron with pit coal, about 1775; in consequence, the make of iron became enormously increased, the industry naturally having migrated to the localities of the coalfields.

GREAT SCHEME.

Inventor—"I've hit a money-making thing at last. The preachers will go wild over it, and it will sell like hot cakes. It's a church contribution box."

Friend—"What good is that?"

Inventor—"It's a triumph. The coins fall through slots of different sizes, and half-crowns, shillings and sixpences land on velvet, but the pennies drop onto a Chinese gong."

BRITISH LOCOMOTIVE TRADE.

The export trade of British locomotives is reviving, for, according to Engineering, of London, the value of the engines shipped in February reached £75,214, as compared with £50,880 in February, 1898, and £81,856 in February, 1897. The most important shipments made last month were those to British India, which represented a value of £25,626, as compared with £13,232 and £31,098. In the two months ending February 28 locomotives were exported to the value of £166,657, as compared with £119,742 and £250,344 in the corresponding periods of 1898 and 1897, respectively. The engines exported to British India figured in these totals for £71,315, £32,192 and £66,645, respectively. The value of the exports to South America in the first two months of this year was £21,500, to British South Africa £15,193, and to Spain £13,407. There has been a large contraction this year in the value of British locomotive shipments to Australasia.

COMPETITION.

The most impartial observer must admit that the good and beneficial influences of healthy competition soon develop into detrimental and injurious agencies when that condition becomes unhealthy, says Stoves and Hardware Reporter. It is one of the practices in which it is most difficult to preserve a happy medium. Either competition is totally absent and thus slothfulness and deterioration are produced, or else there is such an excess of it that profits are ground down to a minimum. As a contemporary cleverly expresses it, "successful competition, judged by its familiar modern characteristics, means that one competitor succeeds in proportion as the other fails." In so many words, if one dealer in hardware can manage by fair means or foul to wrest trade from a neighbor dealing in these same commodities he is crowned with the laurels of success. It is quite evident that the belief prevails that "all is fair in business and war," as well as in love. This keenness of competition has proved contradictory to the fundamental basis upon which it originated and when thus carried to an extreme becomes an evil instead of a benefit.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.,
Limited
HAMILTON, ONT.

AN INVALID OBJECTION TO DAMPER REGULATORS.

ONCE when a certain engineer cleaned one of his boilers he found some scale, that had been thrown down from the tubes, on the crown sheet, writes W. H. Wakeman, in American Machinist. He also found that said crown sheet was burned because the water had been kept from the plate by the accumulation of sediment. Under such circumstances it became necessary for him to find some scapegoat, or else to admit that he had been careless. He, therefore, promptly claimed that, as his damper regulator closed the damper when the highest pressure allowed was reached, it caused the flames to impinge on the fire sheet, and so much heat was concentrated there that it caused it to be burned.

Now, if we have a good fire on the grate and close the damper in the stack, when we look through the holes in the fire door we shall see a mass of flames seething, curling and slowly making their way towards the rear of the boiler, and this has suggested the idea that more heat is in contact with the sheet with a closed than with an open damper.

An enterprising engineer, whose name I have forgotten, tapped a gage cock into the bottom of the front head of his boiler and opened it at different times. When the fire was forced the cock showed blue steam, but when it burned slowly water was discharged. This demonstrated that when heat is passing from the furnace through the crown sheet into the water, at a very rapid rate, the water at the bottom is quickly turned into steam and, as a matter of course, if there is a pile of scale on the outside of the sheet the heat will not pass through so rapidly, and the natural consequence is that the sheet is burned, but the trouble always seems to come when the damper is open and the fire burning fiercely.

If the damper was located at the bridge wall, it might cause the heat to be shut up in the furnace, so that much of it would take effect on the crown sheet, but, as the damper is in the stack, the heat is simply stopped on its way, while the furnace combustion chamber, tubes, and smoke connections are all filled with it, and each part will take up a share. It is impossible to run a boiler with the damper shut, therefore, we cannot demonstrate just what the effect would be, but we know that boilers are run every day with their dampers wide open, and, as long as the sheets are clean, no damage is done, which goes to prove that, in this case, the sediment was the cause of the trouble, and not the closed damper.

It is possible to regulate the draft by closing the ashpit doors and leaving the damper

HARD AT IT.

The ball is open. The Spring rush has begun.

All our mills, every part of our machinery, our whole plant is now taxed to its utmost to keep abreast of our ever-growing business. The increase keeps up in all departments. Our staff are full of the energy and enthusiasm that comes with success. Nothing can stop them. Nothing can bar the progress of **THE SHERWIN-WILLIAMS CO.** and **THE SHERWIN-WILLIAMS PAINTS.**

They're made of the stuff that wins.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

open, but in that case the heat slowly makes its way to the chimney and causes a loss, while a closed damper will retain the heat and still prevent the steam pressure from rising rapidly.

Engineers usually have trouble enough to get improved appliances for use in their plants, on account of the mistaken policy of their employers, so that when some fellow craftsman claims that the automatic draft regulators are dangerous, it tends to make the steam user still more reluctant to invest money in what is sure to bring in fair returns when intelligently cared for, and used in the way its maker intended it to be.

ENGLISH CUTLERY GRINDERS.

Of the dangers to which the cutlery grinder is exposed much has been written. The terrible results of the constant inhalation of dust compounded of stone and steel arrested and appalled the imagination. The expression of public opinion led to the adoption of the Act of 1878 of provisions for the removal of this dust, which was afterwards supplemented by the Act of 1895. Although it cannot be claimed that grinders' phthisis has been extirpated, it has been largely diminished by the use of ventilating fans. With the example

before us of the overflow of such insidious perils by apparently simple methods point is given to the dangers that remain behind and to the indefensibility of allowing them free play. It is the more obvious risks which remain uncontrolled; those engendered by the bursting or flying of a huge grindstone running at a speed of from 200 to 300 revolutions per minute, or of a smaller stone running at a higher velocity, which reaches even 1,500 revolutions per minute.—Fortnightly Review.

LARGE CUTLERY ORDERS.

What is probably the largest order for ivory cutlery ever given to a Sheffield firm has been placed this week with Hunter & Son, of Talbot Works, by the Admiralty. It consists of 15,000 table knives, 19,000 dessert knives, 500 table forks, 500 pairs of game carvers, and 500 steels. The forks have three steel prongs and ivory handles—a pattern which is now practically obsolete so far as the general public is concerned, the familiar German silver and electroplated kind having completely superseded it. Southern & Richardson secured the contract for over 700 pairs of ivory-handled meat carvers, and Thomas Turner & Sons obtained one for 14,000 buffalo-horn table knives and 14,000 horn and steel-pronged forks for the marines. The whole of the goods are to be delivered by the end of September.—Ironmonger.

CHEAPER PLATINUM PROMISED.

FOR many years, between nine-tenths and nineteen-twentieths of the world's supply of platinum has come from Russia, says the New York Tribune. The amount produced has ranged from 6,000 to 8,000 lb. annually. Of late, there have been signs that the yield was falling off, although the demand has steadily increased.

A material addition was made to the call for platinum by the invention of the incandescent electric light. To connect the copper wires outside the lamp with the slender carbon filament within a thread of platinum is needed. The special value of this metal for the purpose mentioned lies in the fact that the rate of expansion and contraction of platinum with heat is the same as that of glass. Were this not so, the unequal expansion would separate the glass from the metal and admit air to the bulb. It is probable that from one-half to five-sixths of the whole supply of platinum to-day is consumed by the electric-lamp makers.

Among the other uses of the metal are the construction of stills for vitriol, dental work, producing the photographic paper which gives us the "platinotype," imparting a silver tint to porcelain, pointing stylographic pens and making non-magnetic watchsprings, and certain parts of telegraphic apparatus.

Most of the American platinum is alloyed with two other metals, osmium and iridium. These latter are separated from the platinum only with great difficulty.

When they are separated the iridium and osmium (combined as "iridosmine") have been practically useless except for pointing gold pens. The limited demand for these other metals and the bother of removing them before the platinum could be used for commercial purposes, has served greatly to discourage production.

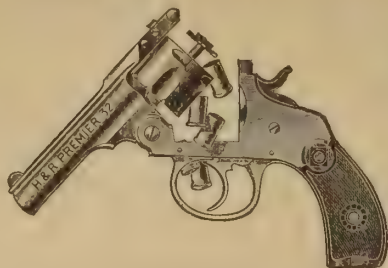
It is now reported that a use has been found by a Vienna inventor for "iridosmine," and, therefore, that the separation of it from platinum will pay better than hitherto. Such being the case, the working of American platinum mines, mostly placers, will be remunerative. A development of the industry is now looked for, which will increase the supply of platinum and materially reduce its price.—New York Tribune.

NEW WIRE-CLEANING HOUSE.

The B. Greening Wire Co., Hamilton, have just closed a contract for the erection of a new wire-cleaning house, which will enable them to greatly increase the output of their wire-drawing mill. During the building of this addition they will add thirty feet to their smokestack, it being their intention to increase the power by the addition of 100 horse-power, either electric or steam, as may be decided within the next few days.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

The ONTARIO LANTERN CO.

HAMILTON, ONT.

Manufacturers of

Lamps, Lamp Burners and Fixtures,
Incandescent, Electric Light and Gas Burners,
Special Railroad Lamps and Lanterns.
Also Sheet Brass Specialties (stamped or drawn to order)

Estimates Given on Contracts.



We are now in a position to fill orders for our—

"VICTOR" ACETYLENE
GAS BICYCLE LAMP.

Walter Grose

Sole Selling Agent,

MONTREAL.

FULL STOCK

DIAMOND BRAND

WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

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HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited



IRON AND
BRASS

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDOUGALL CO., Limited

Manufacturers,

Galt, Canada.

IVER JOHNSON CYCLES

Drop Forged Connections Throughout.

**STRONGEST
WHEELS
BUILT**

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\$40
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\$75
Including
Chainless and
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Hoes
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Rakes
Picks
Axes
Files
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Squares
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Glues
Knobs
Butts
Screws
Anvils
Vises
Pipe
Nails
Whips
Pitch
Twines
Tacks
Burners
Hog Rings
Sap Spouts

Shovels
Scoops
Spades
Scythes
Snaths
Hammers
Mattocks
Hatchets
Wrenches
Turnscrews
Sand Paper
Door Bells
Door Locks
Door Bolts
Bellows
Steel
Iron
Chain
Rope
Wire
Traps
Rifles
Revolvers
Oakum
Oil Stoves
Rivets
Scales
Manure Drags
Sap Buckets

Corn Planters
Fence Wires
Wire Stretchers
Post Hole Augers
Post Hole Spoons
Tree Pruners
Augers and Bits
Emery Cloth
Blacksmiths' Tools
Galvanized Iron
Boot Calks
Window Glass
White Lead
Paints and Oils
Peavies
Brushes
Putty
Tackle Blocks
Cutlery
Hinges
Horse Shoes
Horse Clippers
Horse Nails
Handles
Measures
Wire Cloth
Scythe Stones
Clout Nails
Lamp Glasses

Farm Bells
Draining Tools
Wheelbarrows
Poultry Netting
Wooden Ware
Tinware
Granite Ware
Ice Cream Freezers
Barrel Churns
Dash Churns
Mangles
Wringers
Washing Machines
Guns and Rifles
Ammunition
Powders:
"Schultze" Smokeless
"Dead Shot" Black
House Furnishings
Plow Lines
Axle Grease
Grindstones
Lace Leather
Babbit Metals
Harness Soap
Harness Dressing
Building Papers
Shoe Findings
Bicycle Sundries

MANUFACTURERS ARE ADVANCING PRICES.

ORDER AT ONCE TO SECURE THE BENEFIT OF PRESENT FIGURES.

H. S. Howland, Sons & Co.

37-39 West Front St.

Toronto.

Right Prices.
Prompt Shipments.
Wholesale
Only.

Right Prices.
Prompt Shipments.
Wholesale
Only.

GRAHAM CUT AND WIRE NAILS ARE THE BEST.

THE CANCELLATION OF ORDERS.

THIS is a subject upon which much has been written and said, but in the majority of instances, it has not been discussed from the salesman's standpoint. In this article, it will be discussed just as if the writer was addressing a number of salesmen.

There is one phase of this matter which has greatly disturbed the writer, and against which we desire to protest. It is neither right nor just to yourself or your competitors to importune your customer to cancel an order after he has given it to a competitor, that he may favor you with it, at the same or a less price.

The idea of having slips to attach to orders bought for future delivery, or a rubber stamp with which to place an agreement relative to their cancellation, is something unknown in many localities.

The salesman who encourages the cancellation of such orders, must realize that it will react upon himself, and that what he encourages a customer to do for him, the customer will, in all probability, do for others. We regard it as poor business policy to suggest the cancellation of an order after it has been placed. The practice should be discouraged, for the reason that it places the salesman in a position of uncertainty regarding the amount of business he has done.

Salesmen complain if the jobbers are not able to fill all their future orders on the date specified for shipment. They do not take into consideration that while this practice continues, no jobber can base his specifications for goods upon his salesmen's orders.

All salesmen should apply the Golden Rule to this matter, and should consider the deal consummated when they find their customer has placed an order with his competitor for certain goods. A salesman need not be fearful of saying a good word for his competitor after the order is placed. If the fortunate salesman is a gentleman, he will return the compliment at the first opportunity. This is not beyond the range of a possibility, as there are more gentlemen on the road to-day among traveling salesmen than ever before.

A salesman cannot increase the friendship which his customers feel for him or build up his sales by making disparaging remarks concerning his competitors. A salesman cannot better advertise a competitor than by following this course of procedure.

Do not gather from this that we do not believe in competition. We feel that every salesman should use all the talent at his command to secure the business of his customer, but when the order is placed, he should treat it just as he would want it to

be considered had he been the successful one. An order once entered, should be considered a transaction signed and sealed, and not subject to cancellation.—Charles W. Emery, in Hardware.

VALUABLE "WASTE" PRODUCTS.

To such an extent has the utilization of by-product been carried in the stockyards in Chicago, that now the only waste in a steer is the gastric juice, and what was formerly the waste, says The Manufacturer, is now worth more than the meat. The horns go into knife handles or backs for combs. The white hoofs are sent abroad to return as ivory, while the black hoofs become handles for knives and canes, and are made into a dozen other things, the soft internal parts being resolved into jellies and candies. From the bones are produced piano keys, dice and bone-black. Glue, gelatine, neat's foot oil and an imitation whalebone are made from the sinews. The clarified blood is taken by the sugar refiners, while the rest of it becomes buttons and fertilizers. The intestines serve as casings for sausage, and the bladders as casings for snuff. The tail tuft is an insignificant part of the animal, but when steamed, dried, and washed, it becomes a curled hair that sells readily. As a result of this care and economy, the financial returns from a steer, as estimated by one in the business, are: From the meat and compounds of meat, \$40; from the hide, hair, horns, and hoofs, \$25; from the fats, blood, sinews, and bones, \$15; from all other waste, \$15. or \$55 received from the by-products.

THE BUSINESS MAN.

The business man's life is full of crosses and temptations, says an exchange. He comes into the world without his consent, goes out against his will, and the trip between the two extremities is exceedingly rocky. The rule of contraries is one of the important features of the trip. When he is little the big girls kiss him and when he is big the little girls kiss him. If he raises a large family he is a chump, but if he raises a small check he is a thief and a fraud, and he is shunned like a Chinaman with the seven-year itch. If he is poor, he is a bad manager; if he is rich, he's dishonest; if he's in politics, its for pie; if he's out of politics, you can't tell where to place him; and he's no good to his country; if he don't give for charity, he's a stingy cuss and lives for himself; if he dies young, there was a great future in front of him; if he lives to an old age, he has missed his calling. He is introduced to this world by a doctor, and to the next world by the same process. The road is rocky but man likes to follow it.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.

Covert Mfg. Co.

West Troy, N.Y.

DERBY SNAP

Canadian Patent, April 3 1897.

With Plated Rust Proof and Guarded Spring. "The Latest and Best." Sold by all Leading Jobbers in Canada.

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Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM. SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., USA.

COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.

M^r. Lashill, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

Size,
3/8-inch.



**Cheapest
IN THE
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J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet



Made entirely of Metal, and Ventilated. Designed for dwellings and places where water closets cannot be used.

Price, \$15.00

Write for circulars and trade discounts.

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Headquarters for Builders' Castings, Sash Weights, etc.

THE TORONTO FURNACE AND CREMATORY CO., Limited

The Best is None Too Good.

SYRACUSE BABBIT

Beats them all.

IT IS USED BY THE LARGEST MACHINERY BUILDERS IN UNITED STATES AND CANADA.

Importers and Dealers in

Pig Tin
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Scrap Copper and Brass
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Drosses
and all kinds of
Scrap Metals
Bought and Sold.

MANUFACTURERS ...OF...

Columnia Phosphor Tin
Plumbers' and Tinnners' Solder
Stereo, Lino and
Electro Type Metals
and all kinds of
White Metals made to
order.

Used on all kinds of

Machinery Bearings
Steamships
Dynamos
Saw and Shingle Mills
Paper, Pulp,
Silk, Woolen
and Cotton Mills
Stone and Ore Grinders
and on bearings where
other metals will not
stand.

William and St. Thomas
Streets,
MONTREAL.

Syracuse Smelting Works

Fayette and Seneca
Streets,
SYRACUSE, N.Y.

—CANADIAN AGENTS—

A. R. Williams Machinery Co., Limited, Toronto.
Mechanics Supply Co., Quebec.

John J. Barry, St. John, N.B.
H. H. Fuller & Co., Halifax, N.S.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

ACHILLE SPENALD, general merchant, St. Jean des Chaillons, Que., has assigned.

Wm. Andrew, Blacksmith, Barrie, Ont., has assigned to A. Brownlee.

Eusebe Pelletier, general merchant, Etchemin, Man., has assigned.

Joseph Jacob, contractor, St. Henri de Montreal, is offering 50c. on the dollar.

D. Reddaway, general merchant, Russell, Man., has assigned to A. J. Creighton.

Z. Paquet, general merchant, Roberval, Que., is offering 40c., cash, on the dollar.

Assignment has been demanded of Kidd & Beattie, general merchants, Asbestos, Que.

Eliza Stephenson, harness dealer, London, Ont., has compromised at 15c. on the dollar.

Alex. McCullough, general merchant, Parrsboro', N.S., is offering 50c. on the dollar.

Alph. Deschenes, carriagemaker, St. Phillippe de Nery, Que., is offering 25c. on the dollar.

Assignment has been demanded of H. Brissette & Fils, carriagemakers, Berthier Junction, Que.

G. O. Holmes & Co., Carriage dealers, etc., Kingston, Ont., have assigned to Thos. Dawson, sheriff.

P. Richard, general merchant, St. Valere Bulstrode, Que., has assigned to Tamarche & Benoit.

The estate of James Laird, general merchant, New Glasgow Bridge, P.E.I., is offering 75c. on the dollar.

Amedee Perrier, hardware dealer, Montreal, has assigned, and a meeting of his creditors will be held on April 4.

PARTNERSHIPS FORMED AND DISSOLVED.

Phaneuf & Dore, contractors, Montreal, have dissolved.

Smith & McLaren, general merchants, Brussels, Ont., have dissolved, A. R. Smith continuing.

A. Forbes & Co., general merchants, Rathwell, Man., have dissolved, A. Forbes continuing.

Adams & Firth, general merchants, Campbellton, N.B., have dissolved, A. G. Adams continuing.

Charles Pichon, gunsmith, Victoria, has admitted W. N. Lenfesty, under the style of Pichon & Lenfesty.

C. Douglas & Son, foundrymen, Berwick, N.S., have dissolved, Howard Douglas continuing under the old style.

H. R. Lemieux, hardware dealer, Montreal, has admitted Arthur Renaud, under the style of Lemieux & Renaud.

Cross & Carson, general merchants, Killarney, Man., have dissolved, W. J. Carson selling out his interest to A. McQueen.

J. Codak and J. Cohen have registered partnership under the style of The Star Iron Metal Co., junk dealers, Three Rivers, Que.

Hemenway & Lawson, general merchants, Carman, Man., have admitted H. Smiley under the style of Hemenway, Lawson & Smiley.

SALES MADE AND PENDING.

The assets of R. Jacob, hardware dealer, St. Henri de Montreal, have been sold.

J. McKague, blacksmith, West Essa, Ont., is advertising his business for sale.

The assets of J. A. Plamondon, general merchant, Wotton, Que., have been sold.

The stock of G. F. Fallis, general merchant, Revelstoke, B.C., is advertised for sale by assignee.

Edwin Redpath, general merchant, Niagara Falls, South, Ont., is advertising his business for sale.

The stock of John Bowles, general merchant, Windsor Mills, Que., has been sold at 72 1/4 c. on the dollar.

The stock of G. A. Ouellet, general merchant, Cap St. Ignace, Que., has been sold at 71 3/4 c. on the dollar.

The stock of V. U. Fiset, general merchant, Ancienne Lorette, Que., has been sold at 36c. on the dollar.

Samson & Filion, hardware dealers, Quebec, have purchased the stock of V. U. Fiset, general merchant, Ancienne Lorette, Que.

The item in last week's issue, stating that the stock of McDonnell & Darragh, general merchants, Lancaster, Ont., had been sold, was in error.

CHANGES.

E. Kalbfleisch, general merchant, Atwood, Ont., has sold out to C. H. Holmes.

Edgar Tidey, has bought out Charles E. Horning, general merchant, Rymal, Ont.

Joseph Loranger, general merchant, Yamachiche, Que., has removed to Berthier, Que.

Thomas Kestle, general merchant, Ballymote, Ont., has been succeeded by Stanley Bros.

S. M. Carey, general merchant, Corbettont, Ont., has been succeeded by Endacott & Co.

J. A. Warner, general merchant, Fletwode, N.W.T., has sold out to A. T. Davis.

Agnew & Co., general merchants, Dominion City, Man., have sold out to Bell & McCaul.

Robert L. Tweedy, general merchant, Richard's Landing, Ont., has sold out to Erwin Dean.

A. E. Fremlin, general merchant, Killarney, Man., has sold out to R. Rollins, who takes possession on August 1.

The United Electric Co., Limited, has been incorporated.

Joseph Proulx, blacksmith, Ottawa, is opening a grocery store.

James Laishley has commenced business as bicycle dealer, etc., Ottawa.

Arthur Sproul, blacksmith, Liverpool, N.S., has sold out to Andrew Moore.

The McCloskey Wire Fence Co., Limited, Windsor, Ont., has been incorporated.

Wm. Fields, blacksmith, Palmerston, Ont., has been succeeded by Ada Jermyn.

Mrs. M. A. Hoskin, tinsmith, Melbourne, Ont., has been succeeded by James Hussey.

A. Grenier, blacksmith, Pincher Creek, N.W.T., has sold out to Robinson & Foote.

The James Walker Hardware Co., Limited, Montreal, has been incorporated.

J. F. Boyd, hardware dealer, etc., Minnedosa, Man., has sold out to W. H. Sparling & Co.

F. Thomson has registered as proprietor of Fred Thomson & Co., electrical engineers, Montreal.

FIRES.

Douglas Bros., galvanized iron workers, Toronto, have been partially burned out.

DEATHS.

John McLearn, general merchant, Rawdon, N.S., is dead.

COPPER PRODUCTION.

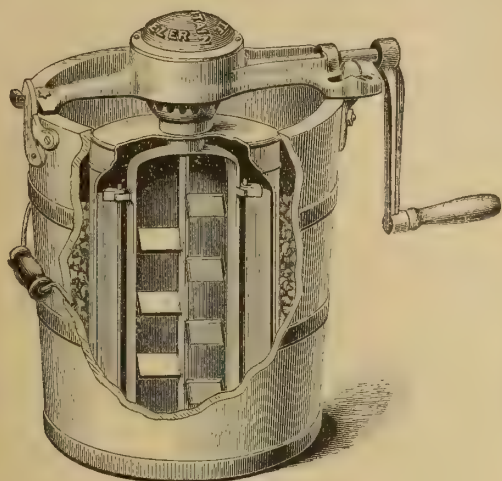
A London, Eng., firm states that the production of copper during 1898 was 424,126 tons of fine copper, as against 397,790 tons in 1897; 372,363 tons in 1896; 334,565 tons in 1895, and 324,505 tons in 1894. In the following table is given the sources of copper during the last few years, in tons:

	1898.	1897.	1896.	1895.	1894.
Australasia	18,000	17,000	11,000	10,000	9,000
Canada	8,040	5,905	4,000	4,000	5,000
Chili	24,850	21,900	23,500	22,075	21,340
Cape Colony	7,060	7,440	7,450	7,680	6,500
Germany	20,085	20,145	20,065	16,555	17,200
Japan	25,175	23,000	21,000	18,430	20,050
Mexico	10,435	10,370	11,150	11,620	11,770
Spain and Portugal	53,225	54,060	53,325	54,950	54,175
United States	234,271	216,060	203,893	172,300	169,695

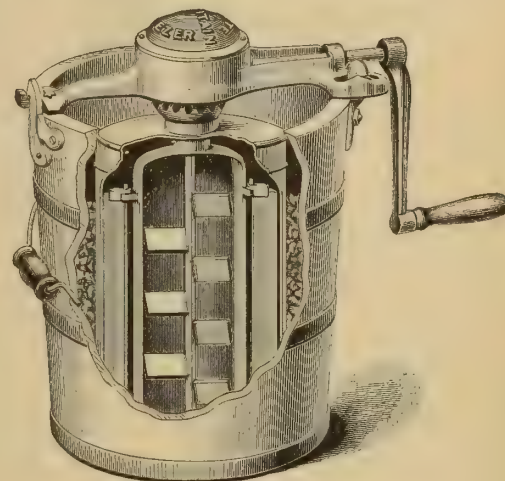
CEMENT FOR CREAM GAUGES.

A correspondent of The Metal Worker gives the following formula for a cement for cream gauges: "Bind the glass with tin frame, soldering each corner of the frame, which is to be put on in four pieces; then take white lead, mix a little whiting with it and use a knife, crowding the lead in on both sides, afterwards wiping the glass with a soft rag. Let it stand until dry, and the joint will be found satisfactory. This is the best cement, and is being used by the largest firms in the country, the make being from 15,000 to 20,000 a year. I forgot to mention that the glass frame must be put inside the can and soldered tight with a bent copper."

THIRTY YEARS MAKING



ICE
CREAM
FREEZERS



AND NOTHING ELSE.

We study the **freezer business**, and have endeavored to manufacture an Ice Cream Freezer that would produce the largest possible quantity of the finest quality of Ice Cream, most economically with the least labor, in the shortest possible time, and the

White Mountain Freezer

IS THE RESULT.

This one subject we have conquered. The White Mountain Freezer of to-day is the best possible product of skilled workmen, fine materials, careful construction. The result of every resource that experience, and a splendid group of factories, can give, and is acknowledged everywhere to be the standard of excellence.

There is profit in them for the Dealer. Satisfaction for the User.

Sole Agents for the Dominion are . . .

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

Write them for complete descriptive catalogue, special information, or prices on our complete line. . . .

Manufactured Exclusively by

THE

White Mountain Freezer Co., Nashua, N.H., U.S.A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, March 30, 1899.

HARDWARE.

THE actual daily movement from the warehouses this week has continued light, for the reason mentioned last week, but there is a large quantity of material held awaiting the reduction in freights, and forward orders also have been quite numerous for all lines of general hardware. There has been another advance in plain wire, which is quoted 5c. higher, and the general tenor of values is as strongly upward as ever. In fact, makers are talking of still further advances, as they complain that it is almost impossible to secure delivery of raw material, while it is steadily stiffening in price.

BARBED WIRE—Business is not active in barbed wire, but values are firmly held at \$2.70 f.o.b. base Montreal.

PLAIN WIRE—There has been another advance in plain wire, which is now quoted 5 to 10c. higher at \$2.45 f.o.b. here. Extras as per list given elsewhere.

FINE STEEL WIRE—Firmly held, with

trade fair, discounts being 25 per cent. off list.

STAPLES—Steady and unchanged. We quote galvanized fence staples \$2.75 per keg of 100 lb.; cooper and poultry netting do. 15 per cent., and electrical, broom and bed, etc., 10 per cent. discount off regular list.

WIRE NAILS—There has been a good demand for these for forward delivery. We quote the base price firmer at \$2.50 to \$2.55.

CUT NAILS—Quite a lot of forward orders for these are coming in, and prices are unchanged at \$1.85 per keg. Flour barrel nails 40 per cent.; coopers' nails 50 per cent.; galvanized roofing nails, 8c., with 25 off, and boat nails, black and galvanized, 40 per cent.

ESCUTCHEON PINS—In moderate request, brass 60 per cent. and steel 45 per cent.

PRESSED SPIKES—No change, and trade moderate at 40 per cent.

HORSESHOES—Business quiet, but prices steady. We quote: Iron horseshoes, light and medium pattern, \$3.15; snow shoes, \$3.40;

XL steel shoes, new light pattern, all sizes, 1 to 5, \$3.35; featherweight, all sizes, Nos. 0 to 4, \$4.30; and toe weight steel shoes, all forward, \$5.50.

HORSE NAILS—Without change as follows: Standard brands countersunk, 50 per cent., and Acadian 50 and 20 per cent. f.o.b. here.

TACKS—Steady: carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 50 per cent. off; tinned do., \$6 per gross with same discount.

DOUBLE-POINTED TACKS—As last reported: In dozens, 85 and 30 per cent.; in bulk, 10 per cent. off list.

SCREWS—Steady, as last quoted. Discounts are as follows: Flat head, bright, 85; round head do., 77½; flat head, brass, 77½; round head, brass, 70. Machine screws, iron and brass, flat head, discount 20 per cent.; round head, 15 per cent.

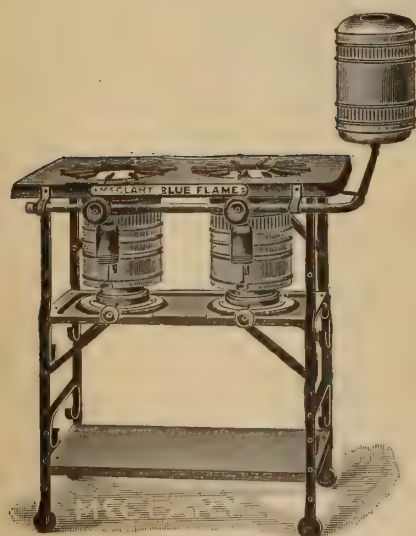
BOLTS—Quiet and steady. Discounts are as follows: Carriage bolts, 5-16, and under are now 60 and 15 per cent. off list; ¾ and larger, 62½. Machine bolts, all sizes

Wickless BLUE FLAME Oil Stoves BURN COAL OIL

DESCRIPTION.—They have no wick, and are thus easily kept clean.

The Oil Tank is made of polished brass and is placed at the back of stove, away from any heat. It is of a telescopic pattern, and has an automatic valve which admits only the required amount of oil to the stove at a time. The removable inner tank can be carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.

ried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.



NO. 04-2 BURNERS, HIGH FRAME.
Mounted on Casters.

Height, 27 inches. Size of top, 17x25 inches. Weight, crated, 40 pounds.

The Valves are of a material that cannot corrode, thus insuring permanent control of the stove.

Our Patent Sight Feed is a revelation, being a wonderfully simple arrangement for measuring and supplying just sufficient oil to suit the user. It always has in readiness, just enough oil (by measure) to start the burner.

To Light the Stove—Open the small valve below the sight feed to let the measured oil into the burner; then close it, light the burner, and at the same time turn on whatever amount of oil you wish. The stove is *instantly started* and no further attention is necessary.

The Oil thus started, burns with a clear blue flame, **without smoke**, and gives a heat of the greatest intensity.

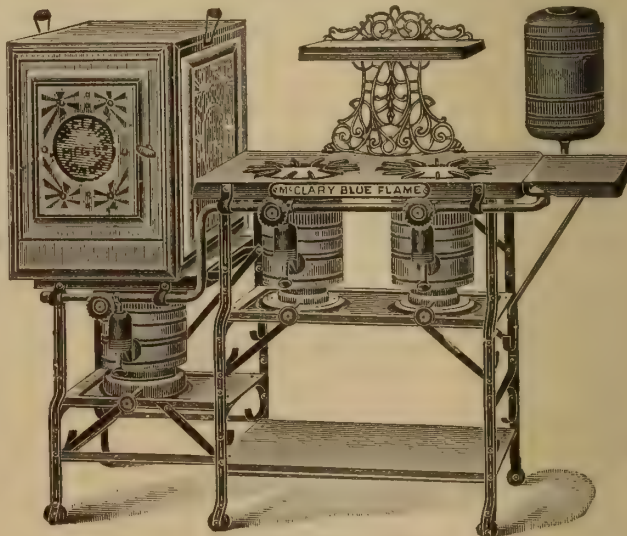
The Steel Frame is strong, and is handsomely striped with gold.

It Makes No Difference whether the oil is good or bad, heavy or light, thick or thin, hot or cold, the stove works equally well, producing an intensely hot, smokeless, blue flame.

Turn on the Oil. Touch a Match.
The Burner Does the Rest.
Cooks Instantly. No Delays.

Special list on application.

When you want your goods quickly, order from McClarys.



NO. 06-3 BURNERS, WITH STEP.
Mounted on Casters.

With Ornamental Back Shelf and Broad End Shelf.
13-inch burner under step.

Height, 27 inches. Size of top, 17x25 inches. Size of step, 14½x17 inches. Weight crated, 65 pounds.

THE McCLARY MFG. CO.

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



Large workers in galvanized iron use two makes: Apollo for fine; another for rough.

Mistake. Apollo is best for rough work too.

Apollo Iron and Steel Company, Pittsburg

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL Pig IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

are 60 and 15; coach screws, 75 and 10, and sleighshoe bolts, 80 per cent. off list.

RIVETS AND BURRS—There has been an advance of 5 per cent. on black and tinned rivets and burrs, the discount now being 60 per cent. on the former and 50 per cent. on the latter. Copper rivets, etc., are unchanged.

CORDAGE—The cordage market presents no activity, and local prices are still unchanged. We quote as follows: Sisal, 9¼ to 9¾c. for 7-16 and upwards, and manila, 10¼ to 10¾c.; smaller sizes, 1c. advance on these figures.

HINGES—In fair request and steady. We quote: Heavy T and strap \$4, and light ditto, 70 and 5 off the list.

SHOT—Firm, as last quoted: 6c. for ordinary, and 6½c. for chilled.

CUTLERY—A few sorting orders are noted this week.

CEMENT—Steady: English, \$2.25 to \$2.45; Belgian, \$1.90 to \$2.10, and German, \$2.50 to \$2.60.

FIREBRICKS—Featureless, at \$18.50 to \$24 per 1,000, as to brand.

METALS.

There is no abatement of the firm tendency of heavy iron material, and the chief difficulty with buyers at present is to secure deliveries from makers.

PIG IRON—This line is firm and higher, No. 1 Hamilton having sold at \$17 to \$18 within the past few days, as to size of lot. In Scotch pig, the inside for Summerlee or equal brands is now \$21.50, and we quote \$21.50 to \$22, as to size of lot.

BAR IRON—Firm at the rise, with considerable business on forward account, at \$1.50 to \$1.55.

HOOP IRON—Firm, with a fair trade noted, at \$2.45.

SHEET IRON—Without change. We quote: 8 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25 and 28, \$2.30.

SHEET STEEL—Quiet, but stiff. We quote: 10 to 16, \$2.60; 18 to 20, \$2.40; 22 to 24, \$2.45; 26, \$2.65; and 28, \$2.70.

HEAVY STEEL—Strong at the advance, tire steel, \$2, and machinery steel, \$2.25.

GALVANIZED IRON—In fair request, and quite strong in tone. We quote: No. 28 "Queen's Head," \$4.35 to \$4.60, and "Comet" \$4.10 to \$4.35.

INGOT COPPER—There has been no further change in copper, though the outside feeling is easy. We quote 18 to 18½c., as to quality.

SHEET COPPER—Steady. Plain, 25c., and tinned, 27c.

INGOT TIN—The feeling in this metal has been rather steadier, but we quote the base price the same at 26c.

Iron, Steel and Metals.

Best brands at low prices for import,
to wholesale buyers only.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASCOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

PIG LEAD—Continues firm, with price unchanged at $4\frac{1}{8}$ to $4\frac{1}{4}$ c.

LEAD PIPE—Quiet. Ordinary, 7c., and composition waste $7\frac{1}{2}$ c. with discount $17\frac{1}{2}$ per cent.

IRON PIPE—The tone is firm with a good demand noted. We quote as follows: Black pipe, $\frac{1}{4}$ -inch, \$2.90; $\frac{3}{8}$ -inch, \$2.90; $\frac{1}{2}$ -inch, \$2.75; $\frac{3}{4}$ -inch, \$3.10; 1-inch, \$4.40; $1\frac{1}{4}$ -inch, \$5.90; $1\frac{1}{2}$ -inch, \$7.15, and 2-inch, \$9.70. Galvanized pipe, $\frac{3}{8}$ -inch, \$5.55; $\frac{1}{2}$ -inch, \$5.90; $\frac{3}{4}$ -inch, \$6.55; 1-inch, \$8.95; $1\frac{1}{4}$ -inch, \$12.40; $1\frac{1}{2}$ -inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATES—Firm and in active demand for prompt and forward account. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—Tinplates of all sorts are firmly held. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Without change, but firm at \$6.25.

COIL CHAIN—In fair request. We quote: No. 6, $9\frac{3}{4}$ c.; No. 5, $8\frac{1}{4}$ c.; No. 4, $7\frac{1}{2}$ c., and No. 3, $6\frac{1}{2}$ c. per lb.; $\frac{1}{4}$ -inch, \$5.50; 5-16, \$4.25; $\frac{3}{8}$, \$3.85; 7-16, \$3.70; $\frac{1}{2}$, \$3.55; 9-16, \$3.40; $\frac{5}{8}$, \$3.25; $\frac{3}{4}$, \$3.15, and $\frac{7}{8}$, \$3.00 per 100 lb.

SHEET ZINC—Prices firmly held under light stocks and a good demand at 8 to $8\frac{1}{4}$ c.

ANTIMONY—Steady at 10 to 11 c.

SPELTER—Firm, with a moderate trade. We quote: V.M., \$6.75, S.S., \$6.50.

GLASS.

There is no change, but stocks are down to very small compass, and for this reason some expect an advance. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Trade in paints has been light as regards the actual movement this week, but for forward account both makers and jobbers report numerous orders. There has been no special change in any line, but the tone is firm all round.

WHITE LEAD—Best brands, Government standard, \$5.87 $\frac{1}{2}$; No. 1, \$5.50; No. 2, \$5.12 $\frac{1}{2}$; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, $5\frac{1}{2}$ c.; in oil, pure, 8c.; No. 1, $6\frac{1}{2}$ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 49c.; boiled, 52c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at $37\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11 c.

PARIS GREEN—We quote: 250-lb. casks, $13\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c.; 1-lb. tins, $15\frac{1}{2}$ c.

MONTREAL NOTES.

There has been an advance in plain wire of 5c.

Linseed oil steadily hardens in England, but is not yet affected here.

Turpentine is scarce and firm, but not quotably changed as yet.

Stocks of window glass are getting into very small compass in this market.

Pig iron has been marked up another 25 to 50c. per ton on previous quotations.

ONTARIO MARKETS.

TORONTO, March 30, 1899.

HARDWARE.

BUSINESS continues to be of a satisfactory character, there being a good trade doing, while the tendency of values is still upwards. Wire nails and cut nails are firm and unchanged. An advance of about 15 per cent. in the price of wood screws is announced making the second in a month. Wire is firmer. Jobbers here have been notified by the manufacturers in the United States of the withdrawal of prices on wooden handles. One of the features of trade during the last few days is the large number of orders of sap buckets for immediate shipment which are being received. Tinware, generally, is in good demand. Eavetroughs are in good request and a number of shipments are being made of orders booked a few weeks ago. A good

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



FOR

Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps

Everything in the stamp line.

SEND TO THE

Hamilton Stamp & Stencil

DATER. 25c. Works, Hamilton, Ont.

Steel Tray Wheelbarrows

Tubular
Meaford (Columbus)
Railroad or Navvy

With Steel Trays (Pan American).

Eastern Agent

ALEXANDER GIBB

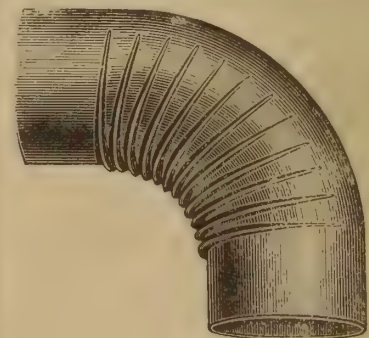
22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

E. T. Wright & Co.

Manufacturers and sole owners

SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

many orders for general hardware are being got ready for shipment April 1.

BARBED WIRE—The market keeps firm, but there has been no further change in prices and business is just moderate. We quote f.o.b. Toronto as follows: Barbed wire, \$2.75 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.75. Staples are quoted at \$3 for galvanized, and \$2.75 for bright. Terms, 2 per cent. off 10 days.

SMOOTH STEEL WIRE—The price of this is rather firmer than it was, but there is not much business being done. We quote the base price at \$2.45 f.o.b. factory.

FINE STEEL WIRE—This is also decidedly firmer at the discount of 25 per cent. factory.

WIRE NAILS—While there is not a great deal being done, yet business is by no means bad, taking into consideration the fact that large quantities were bought some time ago in anticipation of the advance in prices. We still quote base price at \$2.55 Toronto and west of Toronto, and \$2.50 east of Toronto.

CUT NAILS—Business is fair in this line, but no special features have developed during the past week. We quote the base price at \$1.85 per keg f. o. b. Toronto, Hamilton and London, with 5c. per keg rebate.

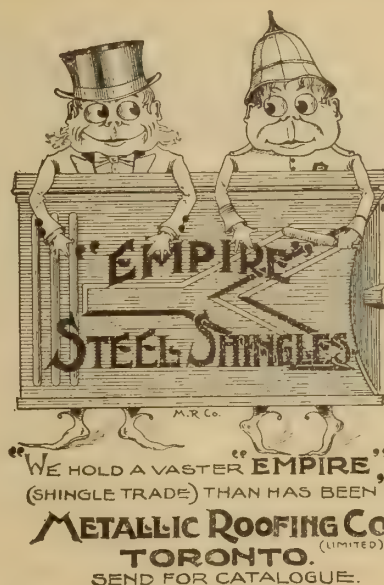
HORSE NAILS—While the trade is not active, a better business is being done. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—As in horse nails, a little better business is to be noted. We quote: Iron shoes, light, medium, and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax.

SCREWS—The second advance in about one month is about equal to 15 per cent. We now quote as follows: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—Trade is still fair and unchanged at recent advance. We quote: Common carriage 5-16 and under, 60 and 15 per cent.; ditto, ¾ and larger, 62½ per cent.; machine bolts, all sizes, 60 and 15 per cent.; coach screws, 75 and 10 per cent.; sleighshoe bolts, 80 per cent.; blank bolts, 60 and 15 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; bolt ends, 60 and 15 per cent.; nuts, square, 4½c.; ditto, hexagon, 5c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—Business is much as it was a week ago when an advance was noted. We quote as follows:



Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 37½ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The outside hemp markets continue strong, but no change has yet been made in the price of rope, and the volume of business is still light. We quote: Sisal, 7-16 in. and larger, 9¼c.; ¾ in., 9¾c.; ¼ and 5-16 in., 10¼c.; Manila, 7-16 in. and larger, 10c.; ¾ in., 10½c.; ¼ and 5-16 in., 11c.; deep sea line, 13½c. for water laid, and 14½c. for machine made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Trade is fair, with business unchanged. We quote delivered from stock in Ontario as follows: No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—Business is improving a little, and prices are unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

WARE—Business in enameled ware is moderate. In tinware there is an active demand. Quite a few shipments are being made in pressed ware. A good many dairy, water, and covered pails for various purposes are being shipped. During the last few days a great demand for sap buckets has been experienced, and the manufacturers and jobbers are being taxed to fill orders.

GAS AND OIL STOVES—Some good orders

have been placed for shipment the first of the month.

EAVETROUGHS—A good many orders are coming in and shipments are being made of orders taken a few weeks ago. We quote as follows: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

CEMENT—Though the demand at the moment is quiet because of the cold weather, a most hopeful feeling prevails, as a brisk building season is anticipated. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The market is, on the whole, a strong one, although there have not been many actual changes made in prices. A further advance has, however, been made in ordinary charcoal plates. Bar iron has also been again advanced. Copper is steady and unchanged.

PIG IRON—The market is still tending upwards, although we hear of no transactions locally.

BAR IRON—The price has again been advanced and we now quote \$1.70 from stock and \$1.55 to \$1.60 from factory.

BLACK SHEETS—The American manufacturers have notified jobbers this week of a withdrawal of prices. Business is fairly good in this line. We still quote 28 gauge, \$2.85.

GALVANIZED IRON—The makers of American galvanized iron have notified Toronto jobbers this week of the withdrawal of prices on this article, stating that they will only quote on application. No changes,

however, have yet been made in our quotations. An increased demand is reported this week, although the backward nature of the weather is not, of course, helping business in this line. We quote as follows: "Queen's Head," 28 gauge, \$4.65 per 100 lb. American makes, 28 gauge, \$4.50 per 100 lb.; "Gordon Crown," 28 gauge, \$4.50 per 100 lb. Less than case lots 25c. per 100 lb. additional.

COPPER—Trade in ingot copper is rather quiet, but there is no disposition on the part of jobbers to cut prices, and the idea as to price is still 18¾ to 19¼c. According to the latest cables, the English market is, however, slightly easier again. In sheet copper the demand is moderate at from 23 to 23½c. per lb.

PIG TIN—Trade is fairly good. Cables from London, on Tuesday, announced an advance of £1 5s. per ton, and New York was also firmer. Locally, there is no change, Lamb and Flag still being quoted at 28c., and Straits at 27½c.

TINPLATES—An increased demand is to be noted this week, and a good business is being done. Charcoal plates show a further advance of 25c. per 100 lb., with I.C., usual sizes, being quoted at \$4 instead of \$3.75.

CANADA PLATES—Not a great many shipments are being made, but some orders are being booked for shipment to be made from stock a short time hence. Not many import orders are being booked, the bulk of the trade in this line being practically done. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2 60, and all bright, \$3.10 per 100 lb.

PIG LEAD—The outside markets are a little easier, but there is no change to be noted here, the idea as to price still being 4½c. per lb.

LEAD PIPE—There is a fair business being done, and prices are unchanged. We

quote: Ordinary pipe, 7c.; waste, 7½c.; discount, 17½ per cent.

IRON PIPE—A firm market is still to be noted, although no further change has been made in prices. Trade is fairly good. We quote as follows: Wrought pipe—¼, ⅜ and ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch, \$4.50; 1¼ inch, \$6; 1½ inch, \$7.40; 2 inch, \$9.90; larger sizes 70 per cent. discount. Galvanized pipe: ¼, ⅜ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—Business is still fair and prices unchanged. We quote as follows: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

TINNED IRON—The demand in this, as noted last week, is decidedly brisk. We quote: 30 x 72; up to 24 gauge, at 6¼ to 6¾c.; all other sizes, 5½c. per lb.

COIL CHAIN—There is not very much being done. We quote: ¼ in., \$6.50; 5-16 in., \$4; ¾ in., \$3.60; 7-16 in., \$3.40; ½ in., \$2.35; ⅝ in., \$3.15; ¾ in., \$3.05.

SHEET ZINC—There is not a great deal being done as people are using substitutes on account of the high price ruling for this article. We still quote 8c. for casks, and 8¼c. for part casks.

SPELTER—Trade is more brisk in this line than it was, but prices are unchanged. We quote 7¼ to 7½c. per lb.

SOLDER—The demand is good and prices unchanged as follows: Half and half, 16¾ to 17¼c.; refined, 16¼ to 16½c.; wiping, 15¾ to 16c.

ANTIMONY—The market is quiet and prices unchanged at 11 to 11½c. per lb.

PAINTS AND OILS.

The end of the month has caused an increase in the volume of trade, which has

been large all month. Everything is moving briskly except turpentine, which is scarce. A general firmness in prices is manifested. The manufacturers of linseed oil have advanced the price, but no change has yet been made in the quotations to retailers. Zinc has not advanced yet, and may not be, but is scarce and very stiff. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; 55c. per 100 lb. in 5-barrel lots. Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2.10 per barrel.

PUMICE STONE—Powdered, \$3 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9½c. per lb. and 10¼c. for single tins; United States, in cases, 8½c., and 9½c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 52c.; boiled, 1 to 4

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

barrels, 55c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 69c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The demand is good, but stocks are getting more depleted, and it is with difficulty many orders are filled. Prices are firm, with little prospect of a decline in values when the new season's stock arrives, because of the high prices now ruling. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

There is no change, a general firm tone prevailing. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 42½c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 8c.; heavy yellow scrap brass, 10c.; heavy red scrap brass, 11c.; scrap lead, 2¾c.; zinc, 3c.; scrap rubber, 5c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

The indications seem to be that the season for deliveries of alsike is about over. From \$2.50 to \$4 has been paid at outside points for choice to fancy lots. Red clover is coming in more freely, at \$3 to \$3.25 at outside points. From 15 to 25c. more than these figures is paid for extra choice to fancy lots.

HIDES, SKINS AND WOOL

HIDES—Prices are easy throughout. Cured hides are ¼c. cheaper. We quote cowhides as follows: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c.; Steer hides are worth ½c. more. Cured hides are worth 8¾c.

SKINS—We quote calfskins nominally: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins and lambskins are steady at 90c. to \$1.

WOOL—A further decline is noted this week for both fleece and unwashed. Fleece is now quoted at 14c. and unwashed at 8 to 8½c.

COAL.

The scarcity of small sizes, especially nut, has resulted in an advance of 25c. per gross ton and 23c. per net ton at Buffalo and bridges for the nut size. We quote anthracite at Buffalo and bridges as follows: Nut,

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.
5 Factories.
5 Brands.

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chaquered, and Rough Plate Glass**. Also of a durable, highly-polished material called "**MARBLETTE**," suitable for Advertising Tablets, Signs, Facias, Direct on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street London E.C.—128 Hope Street, Glasgow—12 Fret Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

\$4.75 per gross ton, or \$4.24 per net ton; egg and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

PETROLEUM.

A good business is reported. Prices are unchanged. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

Wood screws have again advanced.

A fairly good trade in brass is being experienced.

Charcoal plates have advanced another 25c. per 100 lb. this week.

A good many urgent orders for sap buckets have been received during the past few days.

H. S. Howland, Sons & Co. are in receipt of a shipment of both Elliot's and Butler's cutlery.

PERSONAL MENTION.

Hardwaremen throughout the country will learn with regret of the sudden death of the wife of Mr. C. A. de Lisle, Toronto, Canadian representative of The American Wire and Steel Co. The unfortunate woman, who has been unwell for some time, was found dead in bed with the gas turned on.

Mr. E. D. Ross is opening a new hardware store in Brighton. Mr. Ross was formerly a clerk with Mr. D. J. Nesbitt, hardware merchant of the same town. Mr. Ross was in Toronto this week placing orders for stock.

A HORRIBLE NIGHTMARE.

"I'd never go to sleep ag'in if I thort I'd have a 'nother nightmare like that" sighed the weary hobo.

"Was it horrible?"

"The horriest I ever. I dreamed I wor' a keg of hard cider and wor' a workin'."

STOVES IN THE MARITIME PROVINCES.

A meeting of the stove manufacturers of the Maritime Provinces was held in Sackville, N.B., on Thursday, March 23. It was of the opinion that, owing to the greatly increased cost of iron and other raw materials, it would be necessary to advance prices not less than 10 per cent., at an early date.

A BIG PRIVATE POST CARD.

M. & L. Samuel, Benjamin & Co., are issuing a post card nearly seven inches by eleven, on the back of which a list of such metals as tinplates, galvanized iron, Canada plates, etc., carried by them is printed in heavy black type. As the card is perforated at the top, it can be hung up anywhere, so should be a convenience to hardware dealers.

The

DETECTIVE AND CONFIDENTIAL AGENCY.

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employees or Friends.

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.

Spramotor Company,
London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,

W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

MANITOBA MARKETS.

WINNIPEG, March 28, 1899.

THE representative of the American Steel and Wire Company was in town this week, and it is rumored that some very heavy orders were placed for barbed wire and other goods handled by this firm. Trade is very active in all lines of hardware. Already operations have commenced leading to the erection of new buildings. That is, gangs of men are pulling the old buildings down.

The following changes are reported in the price list of the week: Ely loaded shells, soft, 12 guage, \$15; chilled, 12 guage, \$16.50; soft, 10 guage, \$20; chilled, 10 guage, \$21.

Carriage bolts are now quoted at 55 per cent.

Sisal rope has gone up half a cent and is now quoted at \$10.50 base.

Manila remains at \$11.50.

Price list of the week is as follows:

Barbed wire, 100 lb.	\$3 25
Plain twist	3 25
Staples	3 75
Oiled annealed wire	2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	3 00
" 16 and 20	3 05
" 10	3 10
" 8	3 15
" 6	3 20
" 4	3 40
" 3	3 65
Cut nails, 50 and 60 dy.	2 40
" 20 to 40	2 45
" 10 to 16	2 50
" 8	2 55
" 6	2 60
" 4	2 85
" 3	3 10
" 3 fine	3 40
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes	4 25
Steel, light	4 00
" extra light	5 75
Bar and band iron, \$2.10 basis	
Swedish iron, \$5 basis	
Tool steel, Black Diamond, 100 lb	8 00
Jessop	12 50
Sheet iron, black, 8 to 24 gauge, 100 lb	3 50
26 gauge	3 75
28 gauge	4 00
Galvanized American, 16 gauge	3 75
18 to 22 gauge	4 00
24 gauge	4 25
26 gauge	4 50
28 gauge	4 75
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, IC charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 00
Ingot tin	29
Canada plate, 18 x 21 and 18 x 24	3 25
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black, 1/4 inch	2 75
" 1/2 inch	3 00
" 3/4 inch	3 75
" 1 inch	4 25
" 1 1/4 inch	5 75
" 1 1/2 inch	7 75
" 2 inch	9 50
" Over 2 inch	12 50

Rope, sisal, 7-16 and larger	10 50
" 3/4 and 5-16	11 00
Manila, 7-16 and larger	11 50
" 3/4 and 5-16	12 00
Solder	12 50
Cotton, all sizes, lb.	18
Axes, per box	15
Screws, flat head, iron	\$5.50 to 8 00
Round "	80, 10 and 5 p.c.
Flat " brass	75 p.c.
Round "	77 1/2 p.c.
Bolts, carriage	70 p.c.
Machine	55 p.c.
Tire	60 p.c.
Sleigh shoe	55 p.c.
Rivets, iron	65 p.c.
Copper, No. 8, lb.	50 p.c.
Spades and shovels	32 1/2 c.
Harvest tools	40 p.c.
Axe handles, turned, s. g. hickory, doz.	60 to 60 p.c.
No. 1	\$2 50
No. 2	1 50
Octagon extra	1 25
No. 1	1 65
Linseed oil, raw, per gal.	1 25
boiled	57
Ammunition, cartridges, Dominion R.F.	60
Dominion, C.F., pistol	50 p.c.
" military	25 p.c.
American R.F.	15 p.c.
C.F. pistol	35 p.c.
C.F. military	5 p.c.
Loaded shells, Robin Hood, M	Net.
Eley's soft, 12 gauge	\$20 00
chilled, 12 gauge	15 00
soft, 10 gauge	16 50
chilled, 10 gauge	20 00
American, M.	21 00
Shot, Ordinary, per 100 lb	16 25
Chilled	6 50
Powder, F.F., keg	7 00
F.F.G.	4 75
Robin Hood	5 00
Tinware, pressed	10 00
Granite ware, according to quality	.70 and 30 p.c.

ALLEGED BANKRUPT SALES.

A form of unfair competition which runs riot in almost every branch of trade is the illicit and illegitimate advertising and exploiting of so-called bankrupt sales, says Stoves and Hardware Reporter. This has been done so frequently that gradually it is defeating its own ends by arousing suspicion in all clear-headed persons' minds of the authenticity of the statements made in the newspapers. People are rather inclined to become suspicious of such frequent repetition of the same assertions and naturally begin to marvel how so many bankruptcies occur or how an average sized stock of such goods could be universally disseminated over the community in such immense quantities as the advertiser always represents them to be. In nine cases out of ten there is no truth whatever in the statements thus made. A well-known instance of this was cited recently where a store claimed to have purchased the stocks of two stores that had failed. The advertiser asserted that he was selling the goods at 33 cents on the dollar. The advertisement went so far as to give names of bankrupt companies and illustrations of their stores. However, it soon transpired that, though the stores mentioned had failed, this store had not, in reality, purchased anything from them. Such a shameless disregard of truth and honesty cannot be too openly condemned. So severe a case needs a radical cure in the form of thorough punishment.

NEW YORK METAL MARKET.

FIG TIN—In the London market prices were forced up about £1 5s. Such advices as were not officially twisted indicated that the rise was due wholly to manipulation by the conflicting interests among the wildest part of the speculative element there. The market in New York was dead on "Change," but business of considerable volume was effected outside. According to some accounts, fully 250 tons changed hands, about 150 tons of which was handled by one firm. Prices moved decidedly higher here, in sympathy with the London advance and advices of a rise to £110 in Singapore. Here sales were made at about 23.70 to 23.80c. f.o.b., for lots of five tons or more, and at 23.85 to 23.90c. for ordinary jobbing quantities.

COPPER—More business is being effected quietly, chiefly for export account, but particulars are guarded, as usual, and only a guess at the volume of business can be made. It is a reasonable presumption, however, from such facts as come to the surface, that 5,000,000 lb. per month were taken for delivery in April, May and June. Quotations at present are about 17 1/4 c. for Lake Superior ingot; 17 to 17 1/4 c. for electrolytic bars, etc., and 16 1/2 to 16 3/4 c. for common casting stock.

FIG LEAD—Very moderate business only was reported for the day, and new features regarding demand and supply were conspicuously absent. Prices are a shade easier, as usual, in a quiet period, with 4.35 to 4.40c. quoted for prime western, spot or near future delivery.

SPELTER—There is quite good general distribution at the west, but dealings in this quarter are still of merely fair proportions, and chiefly at about 6 1/4 c. for standard brands.

ANTIMONY—There is fair general jobbing distribution, but little doing otherwise, and prices remain at 9 1/4 to 10 1/4 c., according to brand and quantity.

TINPLATE—New business is momentarily on rather moderate scale, but high cost of crude materials still acts against free offering, and prices are holding firm for all deliveries.

IRON AND STEEL—In pig iron, business is on a fairly liberal scale, yet hardly up to the average of the earlier part of the month, but offerings are moderate, and holders stand out firmly for full late highest prices for all grades, spot or near future delivery.

Manufactured products generally are strong, yet without quotable change and selling hardly as freely as they did a short time ago.—N.Y. Journal of Commerce.

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you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
any other, send
them back.

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crement Cut, and are made
in the best equipped file works
in the world. We've been mak-
ing files fifty-seven years and cer-
tainly know how.

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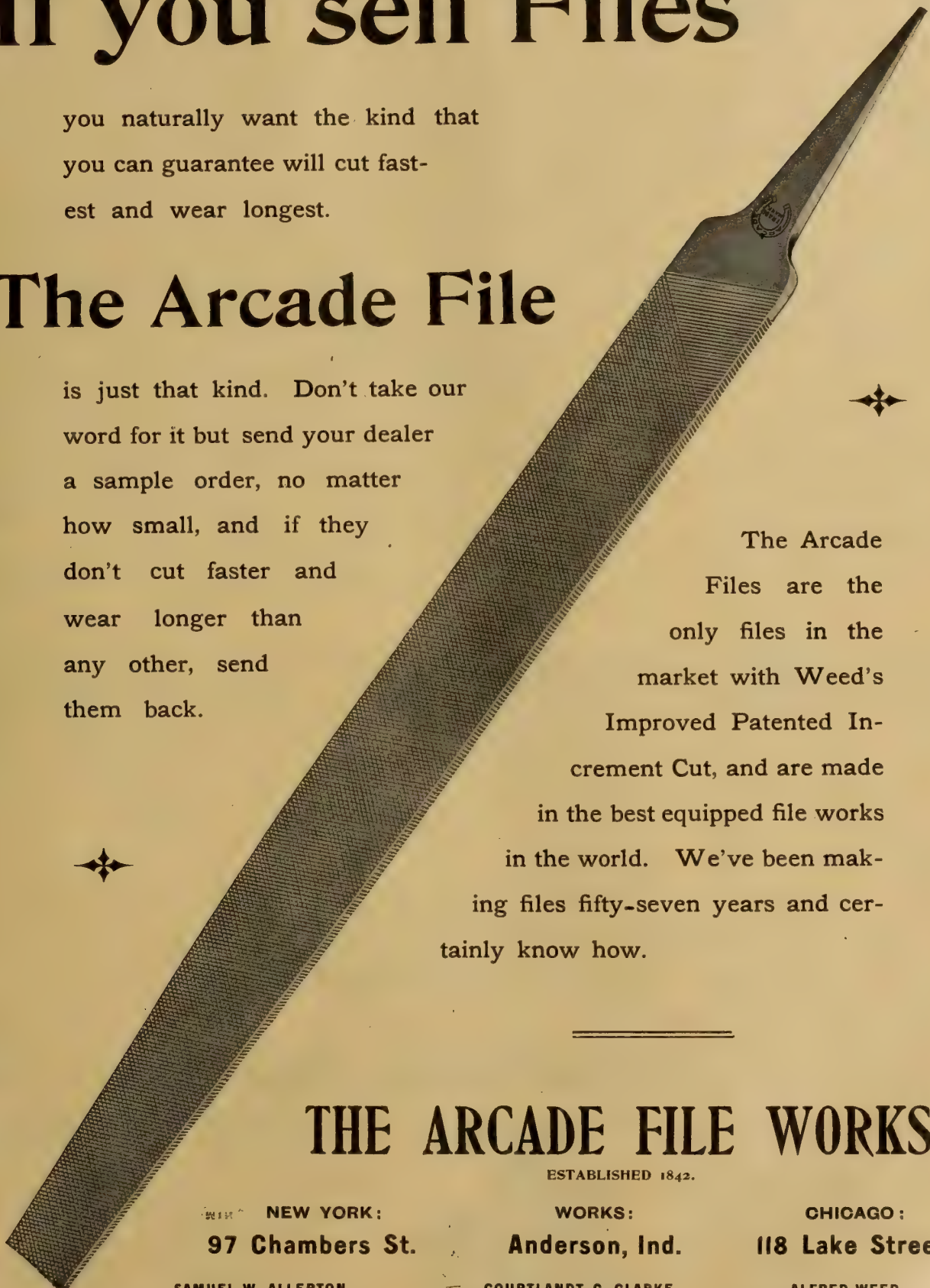
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HEATING AND PLUMBING

A NEW WAY TO THAW WATER PIPE.

PROFESSOR R. W. WOOD, instructor in physics in the University of Wisconsin, has originated the idea of thawing out frozen water pipes with electricity, and made two successful experiments.

In view of the fact that water pipes in a number of cities in the Northwest are frozen at this time, his discovery, which is simple and inexpensive, is of great importance.

He takes the electric current used for street lighting purposes, attaches one wire to the frozen pipe inside the cellar of one house, and the other wire to a similar pipe in the adjoining or any other house, thus completing the circuit.

A current of about 50 volts is then turned on, heating the pipes and melting the ice within.

Professor Wood's plan has been successfully worked at the residence of former Senator W. F. Vilas and Alderman C. N. Brown.

At the Vilas home 150 feet of frozen lead pipe were thawed out in 18 minutes. Professor Wood uses a "transformer" to reduce the voltage, so that the current will not melt the pipes.

There are over 400 frozen pipes in Madison, and the work of thawing them out with electricity will begin in earnest to-day. The discovery will obviate the necessity for excavating, which has always heretofore been the expensive feature.—The Madison (Wis.) Wisconsin.

PERIODICAL CLEANSING OF TRAPS, ETC.

According to an English contemporary, The Surveyor, a movement has been set on foot by advanced sanitarians in England to have periodical cleansings of the traps, stacks of vertical pipes and house-drains effected, particularly after sickness. A debate was recently opened, in connection with classes of instruction for plumbers and sanitary inspectors at King's College, by Dr. Mansel Howe, who, in inaugurating the course, discussed various tests of pipes, giving the preference to compressed air and the mercury gauge as the safest. He advocated the cleansing of the house-drain and shaft-pipes as a wise and sanitary operation to be followed from time to time, independent of sickness, but, after many illnesses, should be compulsorily insisted on

by the public sanitary authorities. At the present time, when so many house-drains were provided with inspection, ventilating and disconnecting chambers, it was comparatively easy to thoroughly brush out and scour this channel. And, in like manner, the fittings and traps in association with the stack-pipes were, in all better-class plumbing work, provided with inspection and cleaning eyes, in order that the curves and bends of the pipes in these fittings might be cleansed. Unfortunately, these inspection eyes were rarely employed for cleansing purposes pure and simple, and only made use of when some temporary stoppage or lodgment in the pipes necessitated immediate attention. When, however, the house-drain and stack-pipes had been treated mechanically by means of brushes, etc., it was recommended that all these pipes should be subjected to the disinfecting properties of chlorine gas, for the destruction of all pathogenic germs that were lingering in the inaccessible parts of the pipes, and in the meshes of the hemp too frequently found in the many unions of the house drain-pipe.—Sanitary Plumber.

PROTECTION AGAINST CORROSION IN WATER PIPE.

At our coal mines the conveyance of steam for longer distances has been satisfactorily accomplished by inclosing the steam pipe within another pipe, leaving an annular space of one inch filled with still air, ensured by waste-packing at intervals, or better by having in the outer joints flat washers that fit close around the inner pipe.

R. Ramsay has inside-coated the two-foot column pipe rising from the pumps in the Standard shaft with $\frac{3}{8}$ -inch layer of hydraulic cement—half Portland cement, half white sand. It is now well known that cement and iron strongly unite superficially, and

also expand and contract together equally under changes of temperature; facts of far-reaching consequence, as developed by the Monier and the Melan systems for strong but light construction in bridges and buildings.—F.-Z. Schellenberg.

HOW TO PIPE A BUILDING FOR GAS.

A GENERAL system for installing the gas-piping in a building has been laid down by a competent authority. It appears in a contemporary, and, as it may be worth introducing to the notice of our readers, we reproduce it as follows:

"1. Each and every separate storey or apartment in a house, hotel, office building, or other, liable at any time to contain a sleeping occupant, should have its individual circuit from the base or initial source.

"2. All gas heaters and gas stoves should have separate circuits from the initial source.

"3. All corridor, hall, and vestibule lights should have separate circuits from the initial source.

"4. All circuits should have equalizing pressure-pipes making complete circuits throughout individual systems from initial sources, up, around, and back to initial source. I have found in practice that the sizes of such equalizing pressure-pipes need to be about five-eighths the size of the main supply circuits, and that proper installation costs 20 to 25 per cent. more than under the old system.

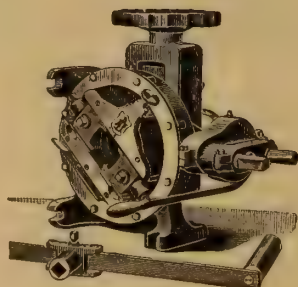
"5. The individual main circuit supply-pipes should be taken off a properly calculated header or drum, and each circuit cut off by a suitable valve at the header; thence the individual circuit should be run to a centre of distribution of branch and tap circuits. All vertical pipes should be run up and not down, and all offtakes should be at

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



New No. 0 Threading Machine.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

Impure water a prolific source of disease.

The Superlative

Water Filter

Now
is
the
time
to
use
a
filter.

gives you a practically new Filter at all times.
Not a cheap article—but GOOD.

The **Jas. Morrison Brass Mfg. Co.**
93 Adelaide W., Toronto. Limited

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

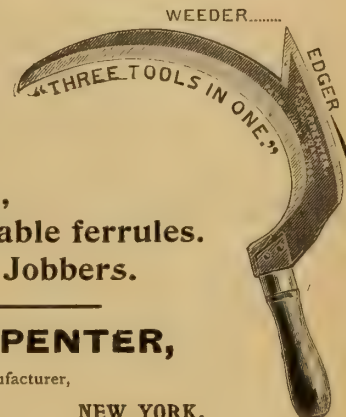
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

THE ..

DOMINION RADIATOR COMPANY

LIMITED

Dealers

in the most complete line of

Steamfitters' Specialties

HEAD OFFICE and WORKS:

340 to 376 Dufferin Street

TORONTO, ONT.



Safford Steam ^{and} Hot Water Radiators
Steam Traps, Separators
Wrought Iron Pipe
Cast and Malleable Fittings
Also Galvanized Pipe and Fittings
Brass and Iron Body Valves, etc.
Boilers for Steam and Water.

the side or top of pipes, and in no case off the bottom. All piping should pitch towards the initial source for drip of condensation; the main circuit or supply-pipe should be continued throughout and around the entire individual system, and return from the furthest point to, and connect with, the base or initial circuit-pipe; this is of utmost importance. Properly installed, the danger of gas service will not only be reduced to the minimum—provided people exercise care in the use of burners—but the quality and illuminating power of the gas will be materially increased."

TORONTO MASTER PLUMBERS MEET.

THE regular meeting of the Toronto Master Plumbers' Association, which was held on Monday evening, was one of the most successful that body has held for some years. The president, Jas. H. Wilson, of The John Ritchie Plumbing and Heating Co., Limited, occupied the chair. A much larger attendance than usual was present.

Two new members, George Cooper and A. E. Burroughs, were initiated, and the application of J. Harris for membership was received.

The banquet committee reported that arrangements had been made for the banquet, which is to be held on Friday evening, April 7, in McConkey's restaurant. Representatives of the associations in Montreal, Ottawa, Hamilton, London, Peterboro', and St. Catharines have been invited, and it was hoped that most of them would be present. The indications were that the banquet would be a success from every point of view.

A general feeling of hopefulness regarding the prospects for summer business was manifested by the members.

TORONTO BUILDING PERMITS.

Permits have been issued in Toronto to Hofland Bros. for a two-storey brick laundry at 302 to 306 Church street, to cost \$3,000; to Isaac W. W. Plews for a pair of semi-detached two-storey and attic brick houses at 306 and 308 Brunswick avenue, to cost \$5,500; to James Rae, for a brick store at 1444 Queen street west, to cost \$3,000; to Thomas Hurst for three two-storey residences at 496 to 500 Dufferin street, to cost \$3,300; to Rev. Ed. T. Fox, for a two-storey and attic residence on Walmer road, near Bloor street, to cost \$6,500; to the Macpherson estate for three two-storey and attic brick residences on the north side of Crescent road, near Yonge street, to cost \$12,500; to C. W. Beatty for a summer residence on Centre Island, to cost \$3,500; to W. Christie for a two-storey frame residence on Centre Island, to cost \$1,000; to T. G. Brough for a two-storey brick house at the corner of Bernard avenue and Admiral

We Want Your Axe Order FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.



EXTERIOR WHITE LEAD

Do you want to learn about the leader in the lead market to-day? Send for our booklet and testimonials on EXTERIOR WHITE LEAD—a card will fetch them.

THAT SIGN

by the roadside tells of prosperous dealers and bright cheerful homes. Prosperous dealers because it pays them to handle

RAMSAY'S UNICORN MIXED PAINTS

and bright cheerful homes because

RAMSAY'S PAINTS

beautify everything they touch. They are pure paints, tested paints, sold at a close price.

SEND FOR COLOR CARD.

A. RAMSAY & SON, ESTABLISHED 1842 **MONTREAL**
PAINT MAKERS. (18)

road, to cost \$5,500; to Dr. J. D. Thorburn for a two-storey and attic residence at 325 Bloor street west, to cost \$6,000; to John Pinkerton for a two-storey and attic brick residence at 103 Tyndal avenue, to cost \$3,500; to C. J. Gibson for a pair of semi-detached brick houses at 99 and 101 Tyndal avenue, to cost \$3,500.

PLUMBING AND HEATING NOTES.

J. G. Bastow, plumber, Kingston, Ont., has sold out to F. T. Phillips & Co.

Operations have been commenced on a \$10,000 schoolhouse in Annapolis, N.S.

The Foster Co., Limited, stove dealers and plumbers, Belleville, Ont., have sold out to John Lewis & Co.

E. K. and J. H. Strachan have registered

partnership under the style of Strachan Bros., plumbers, Nelson, B.C.

Wm. Gilmour and Hugh Gilmour have registered partnership under the style of Gilmour Bros., plumbers, Montreal.

PLUMBING AND HEATING CONTRACTS.

Purdy, Mansell & Co., Toronto, have contracts for heating in two houses for architect R. M. Ogilvie, and in one house for Rev. E. T. Fox, on Walmer road, near Bloor street, Toronto, and for the steam-heating and plumbing in the Loyal True Blue Home for Children in Picton, Ont.

Guest & Co., Toronto, have a contract for plumbing in the residence of J. A. Taylor, Dovercourt road, Toronto.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Galvanized Sheets, Imitation Russia Sheets, Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for . . .

Oil and Artesian Well Pumps, Casing, Tubing Fittings, Drilling Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

. . . TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

1879 ESTABLISHED 1879

ESSEX HANDLE and WOOD TURNING WORKS.

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Doubletrees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction. All stock air-dried, not kiln-dried. If you are going to be in it, place your order with

GARDNER BROS. & CO.**ARE YOU A BUYER of****Hardware, Metals, Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by text mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
26 Front St. West, TORONTO
109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"****TIRE UPSETTERS WILL UPSET TIRES**

Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS**A. B. JARDINE & CO.
HESPELER, ONT.**

Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS**Made also in Malleable Iron.**

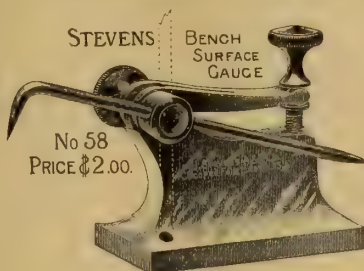
These are a distinct advance over the old plain straps, being much stronger and neater.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnern's Hardware and Roofers' Supplies.

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street

STEVENS ... FINE TOOLS

No 58
PRICE \$2.00.

We make a perfect line of

CALIPERS and DIVIDERS

Also such tools as Surface Gauges, Tool Makers' Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools. It is also a valuable hand-book of information for mechanics and people interested in such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass, U.S.A.

Carried by our representatives at Toronto and Montreal.

For One Cent

Would you send a post card for what we have spent hundreds of dollars to prepare for you and your customers —practical, money - saving information for everyone who owns a home?

One cent is little enough for the time, labor and money - saving points that Alabastine covers (the only permanent and Sanitary Water Color Wall Coating for walls). Will you drop us a postal for all this?

Church's Alabastine is ready for use **with cold water**. It won't decay on the wall like kalsomines. Won't rub off or peel. Anyone can apply it. 16 beautiful tints and white.

Church's Alabastine**The Alabastine Co'y, Limited, Paris, Ont.****HUTCHISON, SHURLY & DERRETT****DOVERCOURT
TWINE MILLS.****1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared to furnish the best made goods in the market at closest prices and make prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.**

JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.



CURRENT MARKET QUOTATIONS.

March 30, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 28
Straits	0 27½

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X.	6 25
I.X.X.	7 50
J. R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	4 00
I.X.	4 75
I.X.X.	5 50
I.X.X.X.	6 25
D.C., 12½x17	3 50
D.X.	4 25
D.X.X.	6 25

NOTE.—Other brands might be shaded by 25c per box.	
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Coke Plates—Bright.

Hessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base.	3 25
20x28.	6 75

Charcoal Plates—Terne.	
Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 25
I.X., Terne Tin	7 75
I.C., Orion	6 25
I.X., Orion	7 25

Charcoal Tin Boiler Plates.	
Cookley Grade—	
X.X., 14x56, 50 sheet bxs	Per lb.
14x60	0 05¾
14x65	0 06

Tinned Sheets.	
72x30 up to 24 gauge.	0 06
26	0 06¾
28	0 07

Iron and Steel.	
Common Bar, per 100 lbs	Base Price
from factory	1 70
Refined	1 60
Horse Shoe	2 20
Hoop steel, 1½ to 3 in. base,	1 70
extras for smaller sizes	2 25
Swedish	4 00
Sleigh Shoe Steel	2 00
Tire Steel	2 00
Machinery	2 00
Cast Steel, per lb	0 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb	0 10½
Pank Plates, 1-5 and thicker.	2 00
Boiler Rivets	4 50

Boiler Tubes.	
1½-inch	0 06½
2	0 07¾
2½	0 09¾
	0 11

Steel Boiler Plate.	
3-16 inch	2 00
	1 90

¾ inch and thicker.	1 75
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Black Sheets.

18 gauge	2 40
20	2 50
22 to 24	2 55
26	2 65
28	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 61
All bright.	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	
\$2.85; ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch,	
\$1.50; 1½ inch, \$6.00; 2 inch, \$7.40; 2½ inch,	
\$9.90. Larger, discount 70 per cent.	
Galvanized, ¼ to ¾ inch, \$5; ½ inch,	
\$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1½ inch,	
\$14.00; 2 inch, \$14.75; 2½ inch, \$19.75. Cast	
soil, 2, 3, 4 and 5 inch, 60, 10 and 5 p.c.	

Galvanized Iron.

G.C. Comet.	Amer.	Queen
16 gauge	3 75	3 90
18 to 24 gauge	4 00	3 90
26	4 25	3 50
28	4 50	3 75
Less than cask lots, 25c. per 100 lb. additional.		

Chain.

Proof Coil, 3-16 in., per 100 lbs	
¾	6 50
5-16	4 00
¾	3 60
7-16	3 40
¾	2 35
¾	3 15
¾	3 05
¾	3 60
Trace, per doz. pairs.	3 60
Jack chain, iron, single, per	
doz. yards.	0 13
Jack chain, double, per doz.	
yards.	0 15
Jack chain, brass, single, per	
doz. yards.	20 10

Copper.

English B. S., ton lots	0 18¾
Lake Superior.	0 19¼
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in.	0 23
round and square	0 24
1 to 2 inches.	0 23

Sheet.

Untinned, 14 oz., and light, 16	0 23
oz., 14x48 and 14x60	0 23½
Untinned, 14 oz., and light, 16	0 23
oz., irregular sizes	0 23½
NOTE.—Extra for tinning, 2 cents per	
pound, and tinning and half planishing 3	
cents per pound.	
Tinned copper sheets	0 26
Planished	0 32

Braziers. (In sheets.)

1x6 ft. 25 to 30 lbs, ea., per lb.	0 25
35 to 45	0 24
50-lb. and above,	0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28
Spun, per lb.	0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½	
p.c. off list.	
Sheets, hard-rolled, 2x4	0 20
Tubing, base, per lb.	0 21

Zinc Spelter.

Foreign, per lb	0 07¼
Domestic	0 07½

Zinc Sheet.

cwt. casks	0 08
Part casks	0 08¼
Lead.	
Imported Pig, per lb	0 04½
Domestic, per lb	0 05¼
Bar, 1 lb.	0 05¼
Sheets, 2½ lbs. sq. ft., by roll.	0 05
Sheets, 3 to 6 lbs., per sq. ft.,	0 04¼
by roll.	0 05
NOTE.—Cut sheets ½ cent per lb. extra	
Pipe, by the roll, usual weights per yard, lists	
at 7 cents per lb. and 17½ per cent. discount.	
NOTE.—Cut lengths, net price, waste pipe	
8-ft. lengths, lists at 7½ cents.	

Shot.

Net list, no discount.	
------------------------	--

Solder.

Bar half-and-half	Per lb.	Per lb.
Refined	0 16¾	0 17¼
Wiping	0 16¾	0 16

NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb	0 11	0 11½
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White Lead.

Pure, Assoc. guarantee, ground in oil,	Per cwt.
25 lb. irons	6 00
No. 1 do	5 62
No. 2 do	5 25
No. 3 do	4 87½
No. 4 do	4 50
Robertson's Chemically Pure	6 00
Munro's Select Flake White	6 25
Elephant and Decorators' Pure	6 00
Brandram's B. B. Genuine	7 25
James genuine.	7 20
No. 1	6 75

White Zinc Paint.

Elephant Snow White	0 08
Pure White Zinc	0 08
No. 1	0 06
No. 2	0 05

Dry White Lead.

Pure, casks.	0 04½
Pure, kegs.	0 04¾
No. 1, casks.	0 04¾
No. 1, kegs.	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon.	1 00
Second qualities, per gallon.	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 09
Marine Black	0 09
Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J.-C.) bbls. per	cwt.	1 35	1 40
Yellow Ochre (J.F.L.S.), bbls.	per cwt.	2 75	
Yellow Ochre (Royal), per	cwt.	1 10	1 15
Brussels Ochre		2 00	
Venetian Red (best), per cwt.		1 80	1 90
English Oxides, per cwt.		3 00	3 25
American Oxides, per cwt.		1 75	1 90
Canadian Oxides, per cwt.		1 75	1 90

Burnt Sienna, pure, per lb.	0 10
Umber, "	0 10
do aw	0 09
rop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 08¾
Ultra marine Blue in 28-lb.	0 08
boxes, per lb.	0 24
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04¼
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks.	0 13¾
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1-lb. tins.	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100	1 65
Bulk in less quantities	1 80
25-lb. tins, 4 in case.	2 05
12½-lb. tins, 8 in case.	2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.	
extra Hamilton, London, Guelph. For quan	
tities less than 100-lbs., 2½c. per lb.	

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	0 90
Extra do.	1 00
Body Varnish	4 00
Furniture Varnish	0 45
Extra do.	0 80
Denar Varnish	1 40
Hard Oil Finish	1 10
Orange Shellac Varnish	1 90
White Shellac	2 00
Rubbing Varnish	2 40
Brown Japan	0 70
Elastic Oak	0 90

Linseed Oil.

Raw, per gal. net.	0 51
Boiled, per gal. net	0 54
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net.	0 67
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots.	0 11½

Cod Oil, Etc.

Cod Oil, per gal.	0 50
Pure Olive	1 20
Neatsfoot	80

Glue.

(In bbls.)	
Common	0 08½
French Medal	0 12
Cabinet, sheet	0 11
White, extra	0 16
Gelatine	0 22
Strip	0 16
Coopers	0 19
Al clear	0 09

HARDWARE.

Ammunition.

Cartridges.	
B. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. c. Amer.	

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistol sizes, Dom.,
30 per cent.
Central Fire Cartridges, Sporting and Mil-
itary, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer-
ican list. B.B. Caps, discount 45 per cent.
Loaded and empty Shells, "Trap" and
"Dominion" grades, 25 per cent. Riva
each Nitro, 17 p.c.
Shot.
Canadian, common, 7½ per cent.
Brass Shot Shells, 55 and 10 per cent.
Primers, Dom., 30 per cent.

Wads.
Best thick white felt wadding, in ½-lb
bags. 1 00
Best thick brown or grey felt wads, in
½ lb. bags. 0 70
Best thick white card wads, in boxes
of 500 each, 12 and smaller gauges
Best thick white card wads, in boxes
of 500 each, 10 gauge. 0 35
Best thick white card wads, in boxes
of 500 each, 8 gauge. 0 55
Thin card wads, in boxes of 1,000
each, 12 and smaller gauges. 0 20
Thin card wads, in boxes of 1,000
each, 10 gauge. 0 25
Thin card wads in boxes of 1,000
each 8 gauge. 0 25
Chemically prepared black edge grey
cloth wads, in boxes of 250 each—
11 and smaller gauge. 0 60
9 and 10 gauges. 0 70
7 and 8 gauges. 0 90
5 and 6 gauges. 1 10
Superior chemically prepared pink
edge, best white cloth wads, in
boxes of 250 each—
11 and smaller gauge. 1 15
9 and 10 gauges. 1 40
7 and 8 gauges. 1 65
5 and 6 gauges. 1 90

Discount, 33½ per cent.
Anvils.
Per lb. 0 10 0 12½
Anvil and Vice combined,
each. 4 50
Wilkinson & Co.'s Anvils, lb. 09 09½
Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised
list.
Hollow Stearn's, per dozen. 13 00 20 00
Adjustable Stearn's, each. 4 50 6 50
Post-hole, Vaughan's, each. 60 90

AXES.
Splitting Axes. 5 25 5 50
Chopping Axes—
Single List, per doz. 6 00 12 00
Double List, " 11 00 18 00
Rench Axes, 40 and 15 p.
Broad Axes, 33½ per cent.

Bath Tubs.
Zinc, discount. 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list.
Steel clad, 20 per cent. discount off revised
list. Boxing extra

Anti-Friction Metal.
"Tandem" A. per lb. 0 19
" B. " 0 16
" C. " 0 10½
" Monarch " 0 21
" 2. " 0 15
" 3. " 0 10
" Canadian " 0 08½
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal. " 0 15
Mystic Metal. " 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.
Door.
Gongs Sargent's. 5 50 8 00
" Peterboro', discount 50 per cent.
Cow.
American make, discount 66½ per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each. 1 25 3 00

House.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders, per doz. 7 50 10 00
Blacksmiths', discount 60 per cent.

Beltling.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47½ to 50 per cent.
Clark's 40 per cent.
Expansive
Gimlet. 0 65 0 90
Clark's, per doz. 1 00 1 50
Diamond, Shell, per doz. 2 25 5 20
Nail and Spike per gross

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 90

Blind and Bed Staples.
All sizes, per lb. 7¼ 0 12

Bolts.
Carriage, 5 1-16 and under, dis., 60 and 5 p.c.
% and larger, dis., 62½ per cent.
Tire, dis., 70 and 5 per cent.
Store dis., 70 per cent.
Steighshoe, 80 per cent.
Machine, all sizes, 60 and 15 per cent.
Blank, 6½ and 15 per cent.
Coach Screws, dis. 75 and 10 p.c.
Plough bolts, 60 p.c.
Bolt ends 6½ and 15 per cent.
Nuts, square, 4¼c.
" hexagon 5c
Tapping nuts, 70 per cent.

Boot Calks.
Small and medium, per M. 4 50
Small heel, per M. 4 25

Broilers.
Light, dis., 65 to 67½ per cent.
Reversible, dis., 65 to 67½ per cent.
Vegetable, per doz., dis. 37½ per cent.
Henis, No. 8. 6 00
Henis, No. 9. 7 00
Queen City " 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 00 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll. 0 30
Tarred lining, per roll. 0 40
Tarred roofing, per 100 lb. 1 45
Coal Tar, per barrel. 3 75
Pitch, per 100-lb. 0 60

Rail Rings.
Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.
Cast Iron
" Loose Pin, dis. 70 per cent.

Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, per pair. 70, 70 and 5 per cent.
Gen. Bronzed, per pair. 0 40 0 65

Cards.
Horse per doz. 0 60 1 00

Carpet Sweepers.
Bissell, " 22 50
World, " 21 75
Oaisy, " 24 00
" Star " 18 00
" Brown Jewel, per doz. 29 00
" Grand Rapids, " 24 0 33 00

Carpet Stretchers.
American, per doz. 1 00 1 50
Bullards, per doz. 6 50

Cartridges.
(See Ammunition.)

Castors.
Bed new list, dis. 55 to 57½ per cent.
Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
Nos 31 and 32, per gross. 8 50 9 50

Cement.
Canadian Portland. 2 65 2 90
English " 2 80 3 00
Belgium " 2 50
Canadian hydraulic. 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per
gross. 0 45 0 75
White lump, per cwt. 0 60 0 65
Red. " 0 05 0 06
Crayon, per gross. 0 14 0 18

Chisels.
Socket, Framing and Firmer.
Broad's dis. 70 and 5 per cent.
Warlock's dis. 40 and 10 per cent.

Churns.
Delivered from stock in Ontario: No. 0, \$2.85
No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No.
4, \$4.35—No. 5, \$5.75. Delivered from stock,
Montreal: No. 0, \$3.05—No. 1, \$3.25—No.
2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5,
\$6.05.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain. 3 25
embossed. 3 50
Connections. 1 10

Compasses, Dividers, Etc.
American, dis. 62½ to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent.

Dies.
Hart Mfg. Co. (pipe es), (Amer. list), di
40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis.
per cent.

Door Springs.
Torrey's Rod, per doz. (15 p.c.) 2 00
Coil, per doz. 0 83 1 60
English per doz. 2 00 4 00

Draw Knives.
Broad's dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz net list.

DRILL BIT.
Morse, dis. 37½ to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz. 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10
70 per cent.

Black Diamond, 50 and 10 to 60 per cent.
Kearney & Foste, 60 and 10 per cent. to 60.
10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Mechanics' Star & File Mfg. Co. Discoun
60 and 10 to 7½ per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60,
and 5 p.c. revised list.

FREZERS
Ice Cream.

White Mountain, 1 to 25 qt. 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Aome, dis. 65 to 67½ per cent.

FRUIT PRESSES.
Henis', per doz. 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each. 1 65 2 40

GLASS.
Window.
Box Price.

Size United Inches.	Per 50 ft.	Per 100 ft.	Per 100 f.
Under 25	1 80	3 50	5 50
26 to 40	1 95	3 80	6 40
41 to 50		4 25	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.
Rope ¾ per gross. 8 25 8 50
" ½ " 9 25 9 50
" ¼ " 11 00 11 25
Leather, 1 in. per doz. 3 87½ 4 40
" 1½ in. " 5 15 5 25
Web, — per doz. 1 87 2 40

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis.
25 to 27½ per cent.

Tack.
Magnetic per doz. 1 10 20

Sledge.
Canadian, per lb. 0 07½ 8½

Ball Pean.
English and Can., per lb. 0 22 25

HANDLES.
Axe, per doz., net. 1 50 2 00
Store door, per doz. 1 00 1 50
Chest, per doz. pairs. 0 40 2 50

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz. 1 00 25

Plane.
American per gross. 3 1

Hammer and Hatchet.
Canadian, 45 per cent.

Cross-Cut Saw.
Canadian, per pair. 0 13½ 0 20

HANGERS.
Door, 4 and 5 inch, per pair. 0 40 50
Lanes, 62½ per cent.

HATCHETS.
Canadian, dis. 40 to 42½ per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb. 0 05
" 5-in. " 0 04½
" 6-in. " 0 04
" 8-in. " 0 04½
" 10-in. " 0 04

crew hook and hinge.
6 to 12 in., per 100 lbs. 3 75
14 in. up, per 100 lbs. 3 00

Spring. Per gro. pair. 8 50

HOES.
Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
Planter, per doz. 4 00

HOOKS.		
Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		

Wire.		
Hat and coat, discount 60 per cent.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS.		
"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
"P. B.", dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.		
Iron Shoes.		
Toronto.		
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		
Light, all sizes	3 45	
Extra light	4 60	
Toe weight (steel)	5 60	

If shipped from factory, Montreal, 10c. per keg less.		
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ICE PICKS.		
Star, per doz.	3 00	3 25

KETTLES.		
Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.		
Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.		
Door, japanned and N.P., per		
doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, " "	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross.	1 30	4 00

KNIVES.		
Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
10 and 5 per cent.		
Lightening, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.		
Porcelain lined, per doz.	2 20	5 60
Galvanized, " "	1 87	3 85
King, wood, " "	2 75	2 90
King, glass, " "	4 00	4 50
All glass, " "	1 20	1 30

LINES.		
Fish, per gross.	1 05	2 50
Chalk, " "	1 90	7 40

LOCKS.		
Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	1 75	7 50
Cabinet.		
Eagle, dis. 30 p.c.		

Padlock.		
English and Am., per doz.	50	6 00
Scandinavian, " "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.		
Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.		
Finemiths, per doz.	1 25	1 50
Carpenters, hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	60	2 00

MATTOCKS.		
Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.		
American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.		
Discount, 25 and 10 per cent.		

NAILS		
Quotations are:		
2d. and 3d.	\$2 85	\$3 55
3d.	2 50	3 20
4d. and 5d.	2 25	2 95
6d. and 7d.	2 15	2 85
8d. and 9d.	2 00	2 70
10 and 12d.	1 95	2 65
16 and 20d.	1 90	2 60
30, 40, 50 and 60d. (base).	1 85	2 55
Steel Cut Nails 10c. extra		
Brads and finishing nails, special sizes,		
80 p.c. from new list.		

NAIL PULLERS.		
German and American.	1 85	3 50
NAIL SETS.		
Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.		
Poultry, 55 per cent. for McMullen's.		
OIL.		
Canada refined oil (Toronto).	0 14	
Carbon safety	0 16½	
American w. w.	0 17½	
Pratt's Astral.	0 17	

OILERS.		
McClary's Model galvan. oil		
can, with pump, 5 gal.	0 00	9 00
per doz.		
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Crass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIIS.		
Galvanized, per doz.	1 85	3 00

PICKS.		
P. r. doz.	6 00	9 00

PICTURE NAILS.		
Porcelain head, per gross.	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY		
Forbes Patent Die Stocks.—Curtis & Curtis,		
Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½		
to 4.	100 00	
No. 56 Hand Machine, range 2½		
to 6.	175 00	

PLANES.		
Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.		
English, per doz.	2 00	5 00

PLIERS AND NIPPERS.		
Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PULLEYS.		
Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS.		
Canadian cistern	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.		
Saddlers, per doz.	1 00	1 85
Conductors, " "	9 00	15 00
Tinners solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.		
Cast steel and malleable Canadian, list dis.		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.		
New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.		
Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, " "	7 50	11 00
Wade & Butcher's, " "	3 60	10
Arbenz's, " "	9 00	18
Theile & Quack's, " "	7 00	12

RIVETS AND BURRS.		
Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 60 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 55 p.c.		
Black M. Rivets (Steel), 60 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb. cartons, ½c.		
per lb.		
Extras on Iron Rivets in ½lb. cartons, 1c.		
per lb.		
Copper Rivets & Burrs, 37½ p.c. dis., and		
cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in		
½-lb. cartons, 1c. per lb.		
Burrs, iron or steel, 50 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.		
Canadian, dis. 35 to 37½ per cent.		
ROPE, ETC.		
7-16 in. and larger, per lb.	Sisal.	Manila
¾ in.	9 ¼	10
1 in.	9 ¾	10½
1½ and 5-16 in.	10 ¼	11
Cotton		13
Russia Deep Sea		14½
Jute	6½	7½
Lath Yarn		8½
New Zealand Rope		

RULES.		
Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.		
Mrs. Potts, per set.	0 65	
N.P., per set.	0 80	

SAND AND EMERY PAPER.		
Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.		
Per lb.	0 20	0 50

SASH WEIGHTS.		
Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.		
Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
frame only.	0 75	

SAW SETS.		
"Lincoln," per doz.	5 50	6 00

SCALES		
Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.		
Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS		
Sargent's, per doz.	65	1 00

SCREWS		
Wood, F. H., iron, and steel, 82½ and 5 p.c.		
Wood R. H., " dis. 75 and 5 p.c.		
" F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., " dis. 67½ and 5 p.c.		
" F. H., bronze, dis. 67½ and 5 p.c.		
" R. H., 62½ and 5 p.c.		
Drive Screws, 85 per cent.		
Bench, wood, per doz.	3 25	4 00
iron,	4 25	5 75

SCYTHES.		
Discount, per doz. net.	4 50	6 00

SCYTHE SNATHS.		
Canadian, dis. 50 p.c.		

SHEARS		
Seymour's, dis. 60 p.c.		
Heinisch, dis. 60 p.c.		
Clauss, full nickel, 60 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.		
Canadian, dis. 40 and 10 per cent.		

SNAPS.		
Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews	4 50	11 50

SOLDERING IRONS.		
Per lb.		0 25

WROUGHT SPIKES.		
Discount, 35 to 40 per cent.		

SQUARES.		
Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.		
Galvanized	3 00	
Bright	2 75	

STOCKS AND DIES.		
American dis. 25 p.c.		

STONE.		
Washita, per lb.	0 28	0 60
Hindostan, " "	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador, " "	0 13	0 13
" Axe, " "	0 15	0 15
Turkey, " "	0 00	1 50
Arkansas, " "	0 00	0 10
Water-of-Ayr, " "	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.

No. 4—3 dozen in case, net cash	....	\$4 50
No. 6—3 dozen in case, "	....	7 50

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

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Offices in the principal cities of the United
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Australia, and in London, England.

The Bradstreet Company is the oldest and, financially,
the strongest organization of its kind—working in one
interest and under one management—with wider rami-
fications, with more capital invested in the business, and
it expends more money every year for the collection and
dissemination of information than any similar institution
in the world.

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Our method of furnishing commercial reports to our
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Every modern facility for the collection of claims.

Tel., Main, 1985.

STAR HACK SAWS BUTCHER SAWS BRACKET SAWS

THE STAR HACK SAW

Has a file temper, and one 5-cent blade will do more work
than \$1 worth of files. It will cut off an inch square bar of
teel 100 times without filing.

THE STAR BUTCHER SAW

Will cut four times as long without filing as any other kind
in use. It will cut off a half-inch rod of iron 30 times.

THE STAR BRACKET SAW

Is taking the place of all other kinds.

None of these Star Saws are to be filed, as the price is less
than the cost of filing. They are taking the place of all
other saws as fast as they become known.

For Sale by Most Hardware Dealers

We also make a Power Hack Saw which may be found in
most machine shops and iron working establishments, and
should be found in all.

MILLERS FALLS CO. 93 Reade Street
NEW YORK

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.

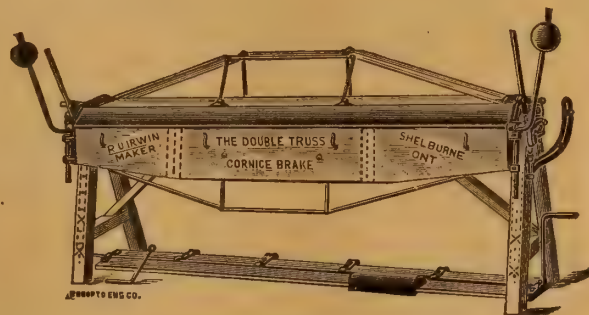
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CATALOGUE.**



Forehand Arms Co.

Manufacturers of
the

**Forehand Guns
Worcester,
Mass.**



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co. SHELBURNE, ONT.**

Trade "DAISY" Mark.



Trade "DAISY" Mark.

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

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60 McGill Street, Montreal, Que.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

Awarded
By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895

HAVE YOU TRIED IT?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM
HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand
as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.
OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

ROBERTSON'S PAINTS

the best that money can buy.

No better can be found anywhere on God's Green Earth.
Only the purest ingredients are used, while they are ground
and mixed with the utmost care and attention.

They have an enormous sale in every Province of the
Dominion, a sure indication of their sterling worth and
popularity..

THE JAMES ROBERTSON CO., Limited

263-285 King Street West, TORONTO

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THE PAINT MAKERS

For all Machine Bearings.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, APRIL 8, 1899.

NO. 14



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—318 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,

266 and 267 West St., New York

Galvanized Iron Leaders:

"QUEEN'S HEAD"
"Fleur-de-Lis"



CANADA

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD Patent RADIATORS

For Heating by
HOT WATER and STEAM.

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company
TORONTO Limited



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Favorite

RICE LEWIS & SON

(LIMITED)

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Importers of . . .

Bar Iron
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Shelf and Heavy
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MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

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...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

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Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co." "The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc. and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

CANADA'S BEST SCALES



GURNEY

Accurate and
Durable.

NEW CATALOGUE

DISTRIBUTED RECENTLY.

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THIS NAME
GUARANTEES
THE QUALITY.



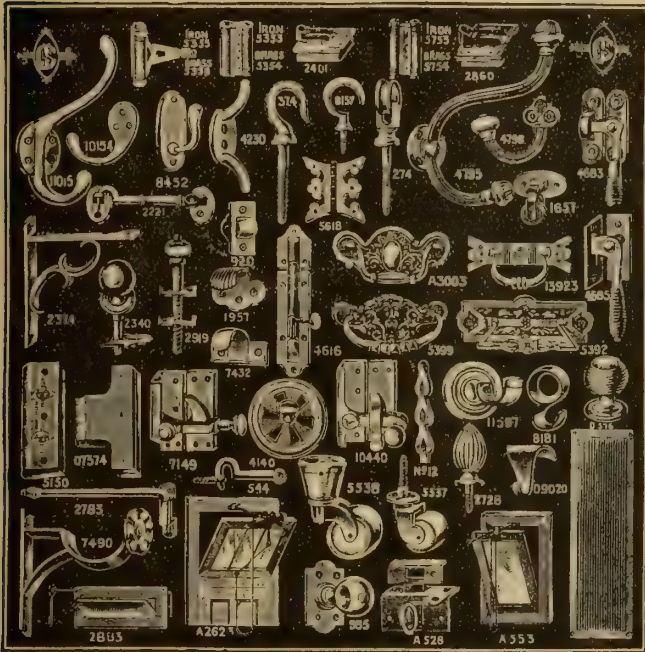
THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.

James Cartland & Son

Manufacturers of every description of

CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
BIRMINGHAM, ENGLAND.



London Showrooms: 57 Holborn Viaduct, E.C.

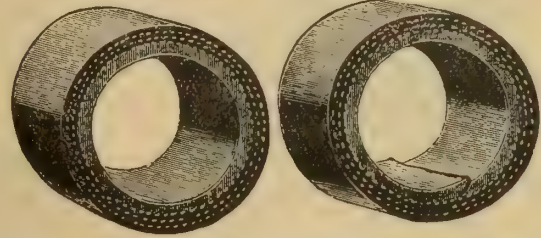
ALL OUR Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

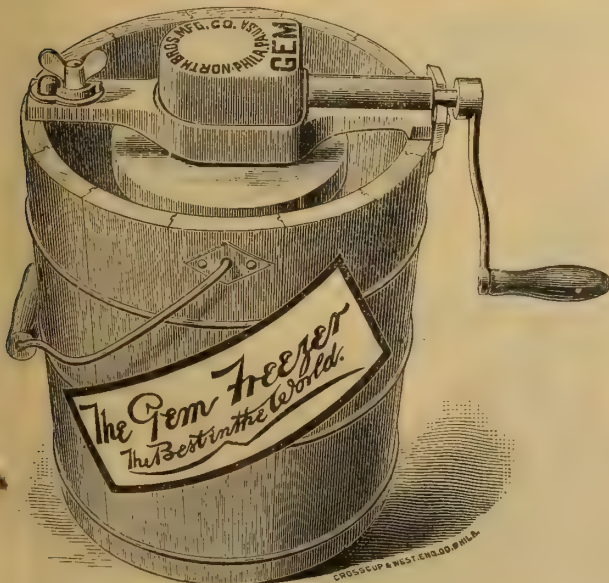
Head Office and Factories, Montreal.

Ontario Branch, Toronto.

Western Branch, Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



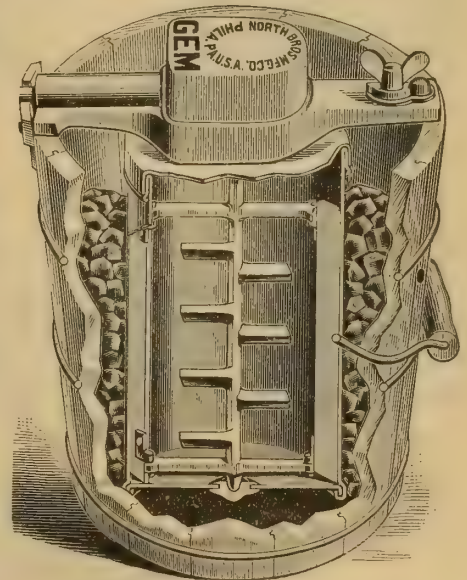
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

CATALOGUES mailed free
...on application.

Philadelphia, Pa.

SOLD BY LEADING JOBBERS EVERYWHERE.

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Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

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LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

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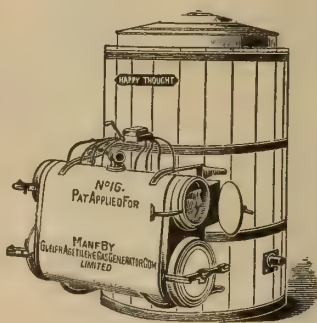


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Perfect Safety

Our Machine is Automatic. Safe.

Sold only through the local Hardware and Plumbing Trades, etc.

No Peddling.

Write Us.

THE GUELPH ACETYLENE GAS CO.

Limited

GUELPH, ONT.

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

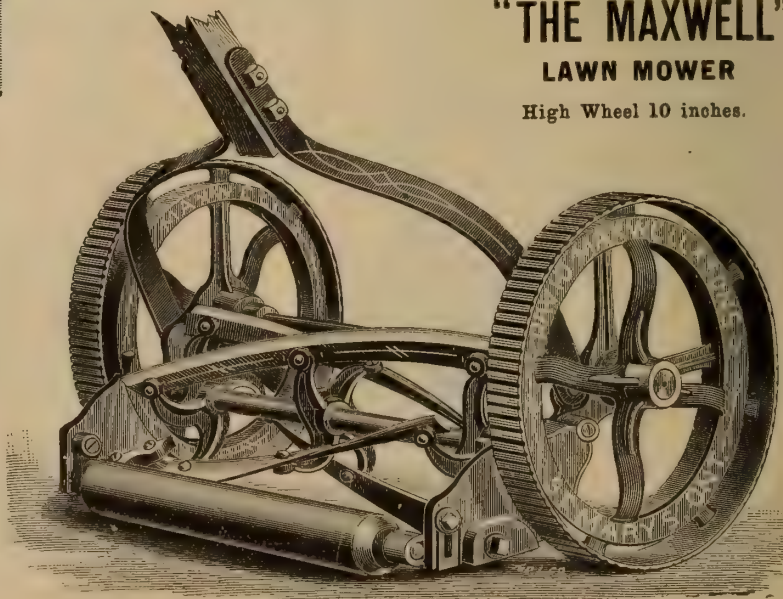
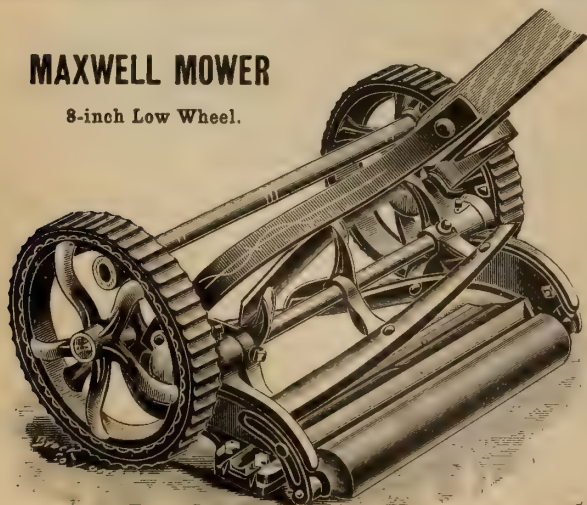
"THE MAXWELL"

LAWN MOWER

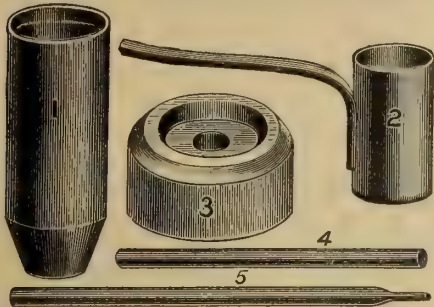
High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

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SHIELD BRAND SHEATHING

GOOD LUCK FIBRE

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The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

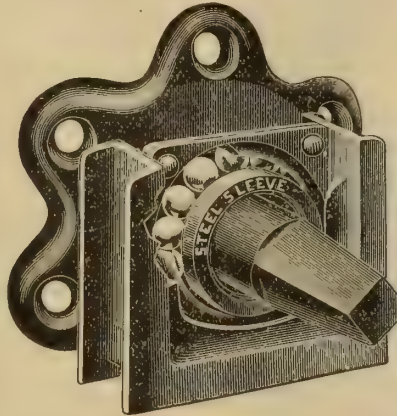
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Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

This is our Latest Stand, with Ball Bearings.



EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

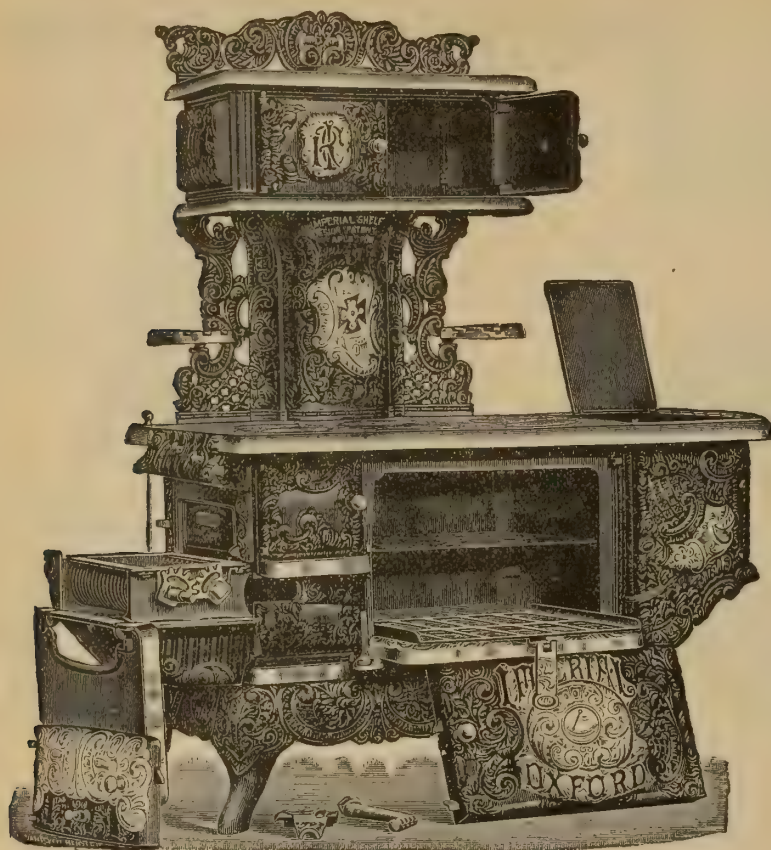
The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.



THE POPULARITY

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THE

Imperial Oxford

ensures speedy sales.

Its splendid new features and patented improvements give it a superiority quickly appreciated—its practical ease of regulation and economy with fuel commending it to everyone.

**The Diffusive Flue Construction
Front Draw-out Grate
Oven Thermometer
Draw-out Oven Rack**

and other details of construction appeal irresistibly to the buyer. If you aren't handling them, write us for full information.

The Gurney Foundry Co., Limited, Toronto.

THE GURNEY-MASSEY CO., Limited, Montreal.

“Gordon Crown” GALVANIZED IRON

Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

	24	26	28 gauge
72 x 30	70	97	113 sheets
96 x 30	52	73	84 “

This is the LIGHTEST IRON MADE.

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE :

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO.

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

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Syracuse Babbitt

Wears its life out in your service and
never grows hot over it.



Best Anti-Friction Metal for all
machinery bearings.

PRICES ON APPLICATION.

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AGENTS: { A. R. Williams Machinery Co., Limited, Toronto.
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John J. Barry, St. John, N. B.
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MANUFACTURERS OF

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty, Dry Colors,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

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Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., MONTREAL

SEWALL & DAY CORDAGE CO.

45 BROAD STREET

Established 1835.

 **BOSTON, MASS.**



**This Brand is a guarantee of the Best
Binder Twine Made.**

For sale in Manitoba and N. W. Territories by
MASSEY-HARRIS CO., Limited, Winnipeg, Man.

In Ontario and Quebec by
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Standard Steel Toe Calks



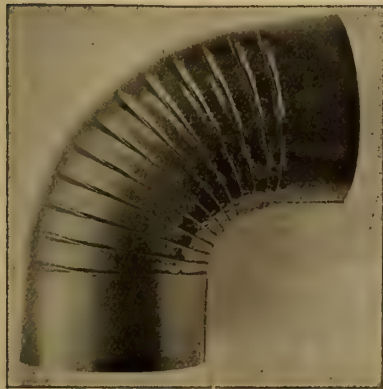
WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, $1\frac{1}{2}$ to 3 inches. Price \$1.00 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, $1\frac{1}{2}$ to $2\frac{3}{4}$ inches. Price \$1.25 Per Box of 25 lbs. in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, = **Saint John, N. B., Canada.**



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Our Standard Pleated Elbows are made on our Patent Elbow Machine (Patented U. S. and Canada) and this year will be made from Blue Steel giving dark finish. We are also introducing a new feature in crating these goods that will ensure safe delivery. These are the elbows that fit any pipe, do not catch the dust, or impede the draft; made strong and neat.

The THOS. DAVIDSON MFG. CO., Limited
MONTREAL.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

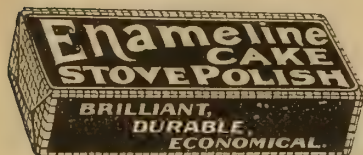
These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

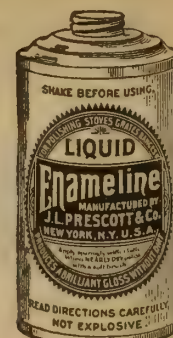
The Modern STOVE POLISH



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

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EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

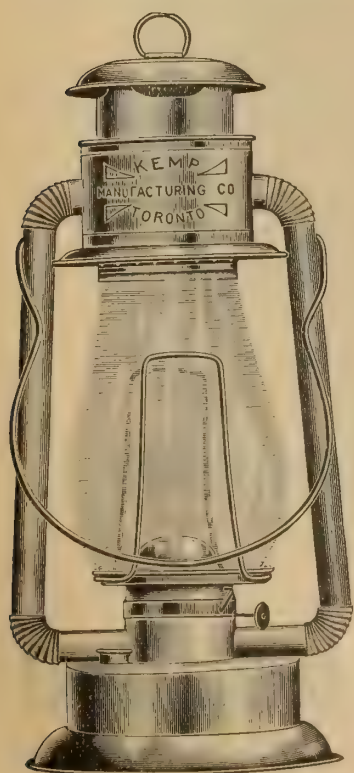


Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S COLD BLAST LANTERNS

The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has a simple extinguishing device which cannot get out of order, and a deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the globe.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



Vol. XI.

MONTREAL AND TORONTO, APRIL 8, 1899.

No. 14

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JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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ST. JOHN, N. B. - - - No. 3 Market Wharf, J. Hunter White.

Subscription Canada, \$2.00 Great Britain, \$3.00
Published every Saturday.

Cable Address { Adscript, London
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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

IMPORT PRICES ON CEMENT.

HARDWARE AND METAL, some weeks ago, predicted that early spring receipts of imported cement would cost fully as much as stock from store.

The spring prices which were given out this week by Montreal commission firms have verified this prediction.

To arrive ex wharf precisely the same range is asked on Belgian, German and English cement, as the prices which have ruled throughout the winter months ex store. Belgian ex wharf is quoted at \$1.90 to \$2.10; English, \$2.30 to \$2.40, and German, \$2.45 to \$2.65.

The figures on the Belgian and the German goods, compared with the opening

prices last spring show, an advance of 10c. per bbl.

Demand for importation is quite brisk, and already several small contracts, aggregating 2,000 barrels, have been closed for spring importation at the above figures.

A TAX FOR LARGE STORES.

The new system of taxation which is being considered in Germany, whereby large stores will be made to contribute a larger proportion of revenue than the smaller ones, has three factors which are to determine the taxation.

The first is the number of branches of business—drapery, grocery, etc.—conducted in a certain establishment. Secondly, the number of employes; and, thirdly, the rent and taxes paid for the premises.

The law will recognize five groups of branches as follows:

1. Articles of food, drugs and perfumery.
2. Clothing, weapons, hunting gear.
3. Furniture and household utensils.
4. Glass and porcelain.
5. Jewellery and bijouteries.

Establishments trading in two or more than two of these groups, and employing more than 25 persons, will come under the new law. Establishments engaged in two branches will pay 10 per cent. of their profits in taxation, those engaged in three branches 15 per cent., in four 20 per cent., in five 25 per cent. Shops trading in three branches or less, and which employ more than 25 persons, will pay an annual tax of 20 marks for each employe, and for each additional branch an additional 10 marks per employe. Business houses with branch establishments will be treated as though all the establishments were under one roof. Cooperative stores will not be taxed under the new law.

THE SUPPLY OF TIN.

THE visible supply of tin on March 31 was 20,642 tons, against 20,062 tons on February 28 this year, and 28,058 tons for the same date in 1898. While stocks have been decreasing also, the consumption has been proceeding at a steady rate.

The total deliveries on the continent, in London and in Holland during February were 4,748 tons and in March 4,572 tons. The shipments were as follows:

Tin Shipments,	March. Tons.	February. Tons.
Straits to London.....	750	1,600
" " Continent.....	1,000	300
" " United States... ..	1,950	2,700
Total from Straits.....	3,700	4,600
Australia to London.....	275	275
" " United States..	Nil	Nil
Total from Australia.....	275	275
Spot Stock, London.....	7,444	6,740
" " Holland.....	4,085	3,348
" " United States..	980	1,020
Total Stock.....	12,500	11,108
Afloat Stock, London.....	1,710	2,464
" " Holland.....	1,133	1,258
" " United States..	5,290	5,230
Total afloat.....	8,133	8,952

CAST IRON HARDWARE DEARER.

A week or two ago, **HARDWARE AND METAL** announced the withdrawal of quotations by the manufacturers of cast iron hardware in Canada. New figures have now been issued, and they show a material advance.

Loose pin cast butts, barn door hinges to screw, Mrs. Pott's sad irons, barn door hangers, are all 20 per cent. dearer. Hat and coat hooks, foot scrapers, door bells and hog rings are 25 per cent. higher. Clothesline reels and Morrell's saw sets show an appreciation of 10 per cent. Thumb latches are marked up 33 1/3 per cent.

HOW THE TRADING STAMP CLAUSE WAS KILLED.

THE fate of the trading stamp and coupon clause in the municipal amendment bill, which was before the Ontario Legislature, is another illustration of the old saying that "there is many a slip between the cup and the lip."

The clause came before the municipal committee, which comprises some seventy members of the House, and was adopted with only one dissentient, but, in the closing hours of the closing session, one of the members arose and moved the expunction of the clause, and the motion was agreed to without a voice being raised in protest.

This took place during the famous all-night session, which ended on Friday morning last at 7 o'clock.

But an interesting fact has come to light as to the modus operandi whereby the mover of the resolution was induced to take the steps he did.

It appears that sometime during the day, one of the lawyers acting for those opposed to the legislation regarding trading stamps approached a member of the House, who also happened to be a lawyer, and asked him his views in regard thereto. The latter remarked that he was not much interested, but did not know that he favored the proposed tax on trading stamps and coupons. The lawyer acting for those opposed to the proposition then asked him to move the expunction of the clause when it came before the House. He promised to do so. The result has been already stated.

The members of the House were no doubt in a hurry to get through business in order that the Legislature might be prorogued, but this did not warrant their allowing a clause, which had received the almost unanimous support of the Municipal Committee two days before, to be smothered in such an unceremonious manner.

If only one member had protested, it is possible enough energy would have been stirred up in the indifferent or sleepy members to have prevented the mover succeeding in his object; but it appears there was not even one with energy enough to do this.

When business men want legislation in their interest, it is evident they must keep their eyes on the legislators.

The lawyers are, in this respect, wiser in

their generation than the business men. They know the legislators require watching, and, consequently, they are always on hand to do so when matters in which they are interested are before the House.

AID FOR THE IRON INDUSTRY.

TWO of the Provincial Legislatures of the Dominion have within the last few weeks taken steps to further aid the development of the iron industry in their respective Provinces. The Legislatures in question are those of Nova Scotia and Ontario.

It will be remembered that The Dominion Steel and Iron Co., composed chiefly of United States capitalists, decided to erect a \$3,000,000 plant in Cape Breton. These same capitalists control The Dominion Coal Co., and they, a few weeks ago, petitioned the Nova Scotia Government to remit for a period of five years the royalty of 12c. levied on coal produced by the company and used in its steel works.

The Government has announced that while it is not prepared to grant the request as asked, it will remit half the royalty for a period of eight years.

Cape Breton has agreed to give the company exemption from taxation for 30 years.

It is the intention of The Dominion Steel and Iron Company to pay special attention to the export trade. It recently bonded iron ore areas in Newfoundland to the value of \$1,000,000.

The legislation in Ontario was an amendment to the Mines Act, whereby blast furnaces in the Province which use charcoal as the sole fuel may obtain a bounty of 50c. per ton on the proportion of pig metal, the product of ores not mined in Ontario, and the payment on the proportional product of Ontario ores on the basis of \$1 per ton of pig metal. It is stipulated that the following proportion of Ontario ores shall be used with the foreign ores: In the first period of two years, not less than 20 per cent.; after two years, not less than 40 per cent.; after four years, not less than 60 per cent.; after six years, not less than 80 per cent., and after eight years not less than 100 per cent.

The purpose of the legislation in Ontario is to aid the charcoal furnace which began

operations in Deseronto a few weeks ago, and the one of the same character which it is proposed to start at Midland.

PRODUCE PRODUCED BY INDIANS.

CANADA'S Indian population is gradually conforming itself to the industrial habits of the white man. The report of the Department of Indian Affairs, just issued, shows this.

For example, last year, the 100,093 Indians within the Dominion produced 1,120,900 bushels of cereals, roots, and vegetables, 74,658 tons of hay and other fodder, being an increase of 101,500 bushels and 2,164 tons respectively. Besides these, there were poultry and live stock.

The quantity of wheat alone produced was 173,087 bushels. The Indians of British Columbia headed the list in the quantity of wheat produced. British Columbia also possesses the band, the Nkamplex, which raised the largest quantity. The number of bushels produced by this band was 44,963.

Ontario comes next, with 59,376 bushels of wheat, and the Six Nation Indians, probably the most advanced in civilization in the Dominion, produced the largest quantity of any one band in the Province, namely, 25,401 bushels.

The Indians of the Northwest Territories produced 21,271 bushels of wheat, and "Carry the Kettle" carried off the honor of harvesting the largest quantity, namely, 2,750 bushels.

Next in order come the Indians of Manitoba, with 16,086 bushels of wheat; Quebec, with 1,472 bushels; New Brunswick, 495 bushels; Prince Edward Island, 245 bushels, and Nova Scotia, 47 bushels.

The amount of money earned by the Indians in the Dominion, from agriculture, rent, wages, fishing, hunting and other avocations, was in the neighborhood of \$2,800,000, an increase of \$200,000 compared with 1897.

The more independent of the Government the Indians become, the more valuable will they become to the storekeepers of the country.

ROPE IS DEARER.

Rope is ½c. per lb. dearer all round, and jobbers in Toronto are now quoting Manila at 10½c. and sisal at 10c. per lb. New Zealand rope is quoted at 9½c. per lb. The advances are due to the appreciation in the price of hemp.

A YEAR OF IRON AND STEEL IMPORTS.

THE Trade and Navigation Returns for the fiscal year ending June 30, 1898, have been a long time coming to hand, but they contain some interesting figures, particularly in regard to the import trade in iron and steel, and manufactures thereof. The following table shows this at a glance:

	1898	1897
Iron and steel and manufactures of (dutyable).....	\$12,691,772	\$8,666,497
Lead and manufactures of (dutyable).....	340,000	233,125
Metals, n.e.s. (dutyable)...	538,997	292,324
Paints and colors (dutyable)	667,499	519,445
Tin and manufactures of (dutyable).....	80,609	77,186
Metals (free).....	6,699,033	4,428,573
	\$21,018,910	\$14,217,150

It will be noticed that the total importations, including paints and oils, reach \$21,018,910, compared with \$14,217,150, an increase of 50 per cent. This same percentage of increase characterizes the dutyable imports of iron and steel and manufactures of, while in free metals the increase is over 51 per cent. The following table gives the imports in greater detail, although the figures therein given are necessarily bunched in many particulars:

IMPORTS OF IRON, STEEL, ETC.—DUTIABLE LIST.

	1898	1897
Bells and gongs.....	\$ 16,906	\$ 22,965
Brass and manufactures of....	346,687	325,792
Brushes.....	137,164	104,252
Bicycles and tricycles.....	597,726	759,366
parts of.....	279,382	279,417
Cement, Portland.....	355,264	252,587
Copper and manufactures of....	89,290	60,207
Cordage, cotton.....	22,991	15,927
" n.e.s. (see twines).....	30,082	51,235
Glue, powdered or sheet.....	110,644	76,390
" liquid.....	17,731	14,966
Emery wheels and manufactures of emery.....	15,478	11,231
Common and colorless window glass, and plain, colored, opaque, stained or tinted or muffled glass in sheets.....	309,517	271,528
Plate glass, bevelled and not bevelled, etc.....	126,702	187,014
Gunpowder, etc.....	141,731	131,562
Agricultural implements:		
Binding attachments.....	7,824	5,212
Cultivators.....	14,152	19,820
Drills.....	54,382	32,020
Forks, pronged.....	12,419	8,078
Harrows.....	36,156	30,272
Harvesters.....	407,342	203,237
Hoes.....	2,166	1,267
Horse rakes.....	31,578	16,375
Lawn mowers.....	4,770	3,064
Mowing machines.....	189,924	94,118
Ploughs.....	161,590	75,680
Reapers.....	11,874	4,614
Scythes, snathes and reaping hooks.....	22,857	17,854
Spades and shovels, spades and shovel blanks, and iron or steel cut to shape for same.....	16,623	22,878
All other agricultural implements, n.e.s.....	13,834	39,636
All other agricultural implements, parts of, n.e.s.....	43,349	.....
Anvils and vises.....	13,581	.....
Springs, axle bars, etc.....	28,554	41,056
Bar iron or steel, n.e.s., rolled, whether in coils, bundles, rods, etc.....	372,297	139,212
Butts and hinges, n.e.s.....	14,368	11,296

	1898	1897
Castings, iron and steel, in the rough.....	\$79,717	\$.....
Canada plates, Russia iron, flat galvanized iron or steel sheets, terne plates and rolled sheets of iron and steel coated with zinc, spelter or other metals, n.e.s.....	704,290	.....
Cast iron pipe.....	37,726	34,103
Cast scrap iron.....	13,251	1,362
Chains.....	98,072	68,024
Tacks.....	11,143	4,522
Engines, locomotives for railways, n.e.s.....	576,091	118,463
Engines, steam engines and boilers.....	100,327	.....
Fittings, iron or steel, for iron or steel pipe.....	85,523	68,861
Ferro-silicon, spiegeleisen and ferro-manganese.....	22,516	9,233
Forgings of iron or steel, and hammered iron or steel bars or shapes.....	34,744	35,572
Hardware, viz.: builders', cabinetmakers', upholsterers' hardware, etc.....	423,354	289,435
Iron or steel ingots, puddled bars, etc., less finished than iron or steel bars.....	122,426	42,588
Iron or steel bridges or parts thereof.....	438,634	19,317
Iron in pigs.....	381,603	291,715
" charcoal.....	23,533	35,373
Locks of all kinds.....	97,168	59,563
Ore and rock crushers, rock drills, etc.....	33,589	.....
Portable machines.....	360,524	316,475
All other machinery composed wholly or in part of iron, or steel, n.o.p.....	1,709,034	1,336,517
Malleable iron castings or iron or steel castings, n.e.s.....	32,214	97,271
Nails and spikes, composition and sheathing nails.....	6,500	4,377
Nails and spikes, wrought and pressed.....	7,896	18,634
Nails and spikes, cut and railway spikes.....	10,487	9,537
Nails, wire of all kinds.....	6,905	14,705
Mould boards, plough plates and other plates for agricultural implements.....	96,722	37,134
Pumps, n.e.s.....	93,550	62,548
Iron and steel railway bars or rails of any form, n.e.s.....	89,912	82,354
Railway fish-plates and tie-plates.....	171,605	67,511
Rolled iron or steel.....	968,398	217,931
Screws.....	10,502	6,388
Scales, balances, etc.....	42,160	24,037
Skates of all kinds and parts thereof.....	37,799	25,455
Skelp, iron or steel.....	138,052	.....
Stoves of all kinds.....	88,778	67,724
Stove plates, and sad, hatters' irons, etc.....	7,213	.....
Swedish rolled iron and Swedish rolled steel nail rods for making horseshoe nails..	44,766	29,971
Tubing.....	562,167	522,778
Ware—Galvanized, hollow, enameled.....	104,964	85,283
Wire cloth or woven wire and netting of wire or steel.....	12,203	11,382
Barbed wire and Nos. 9, 12 and 13 gal. wire.....	28,673	80,462
Wire fencing, woven, buck-thorn strip, and wire fencing of iron or steel, n.e.s.....	28,511	.....
Wire of all kinds, n.o.p.....	127,353	.....
Wire rope, stranded or twisted wire, clothes lines, etc., n.e.s.	58,693	39,313
Iron or steel nuts, washers, rivets and bolts, and nut bolts and hinge blanks, and T and strap hinges of all kinds, n.e.s.....	68,991	47,488
Penknives, jackknives and pocket knives of all kinds... n.o.p.....	83,098	84,764
Table cutlery of all kinds, n.o.p.....	94,994	58,862
All other cutlery, n.e.s.....	151,464	87,727
Guns, rifles, revolvers, etc.....	127,621	93,015
Steel—Chrome steel.....	16,044	5,141
Steel plate.....	71,936	174,131
Steel in bars, bands, hoops, sheets or plates, when not of greater value than 2½¢. per lb.....	250,032	.....

	1898	1897
Adzes, cleavers, hatchets, wedges, hammers, crowbars, cant dogs and track tools, picks, mattocks and eyes or poles for the same.....	\$37,597	\$.....
Axes.....	36,593	33,021
Saws.....	81,148	77,363
Files and rasps, n.e.s.....	73,211	52,688
Tools, hand or machine, of all kinds, n.o.p.....	365,362	.....
Lead and manufactures of....	335,278	233,125
Babbit metal.....	21,489	13,452
Gas, coal or other oil and electric light fixtures, or parts thereof, of metal.....	80,683	46,899
Colors, dry, n.e.s.....	43,446	48,245
Colors and paints, pulped or ground in oil or other liquids, and all liquid prepared for ready-mixed paints, n.e.s.....	82,624	70,564
Dry white and red lead, orange mineral and zinc white....	449,685	347,539
Paris green, dry.....	34,916	23,091
Boilers, steam engines and other machinery.....	74,683	7,550
Turpentine.....	211,216	153,483
Linseed oil.....	184,669	290,642
Castor oil.....	41,497	26,214
Binder twine (see also free list)	7,915	180,190
Varnishes, lacquers, etc.....	74,291	60,721
Window shade or blind rollers	22,337	16,724
Coal, bituminous.....	3,225,151	3,254,217

IRON AND STEEL IMPORTS—FREE LIST.

	1898	1897
Coal, anthracite.....	\$5,847,685	\$5,695,168
Ores of metals of all kinds....	151,583	485,476
Shovel handles, wholly of wood.....	16,275	.....
Bells, for use of churches.....	15,774	24,605
Binder twine.....	366,718	.....
Blast furnace slag.....	17,658	9,404
Brass, in bolts, bars, rods, strips, tubing less than 6 in. in length, scrap, etc.....	193,698	117,381
Brass cups, for shell manufacturers.....	19,539	14,169
Copper—ingots, tubing, bolts, bars, rods, strips, sheets, plates, scrap, etc.....	775,090	209,827
Iron or steel, rolled round wire rods, not over ¾ in. in diameter, imported by manufacturers for use in making wire in the coil.....	658,157	677,728
Rolled iron tubes, imported for the manufacture of iron or brass bedsteads.....	57,502	8,988
Iron or steel beams, sheets, plates, angles, etc., for ship-building.....	68,694	42,542
Locomotive and car wheel tires of steel in the rough..	4,463	30,212
Mining, smelting and reducing machinery.....	202,446	128,780
Steel rails, weighing not less than 45 lb. per lineal yard..	1,810,605	1,443,857
Steel, strip and flat, steel wire, imported by manufacturers, and barbed wire, after June 1, 1898.....	212,485	.....
Steel, for various manufacturing purposes.....	895,258	252,397
Tin, in blocks, pigs and bars..	292,344	249,852
Tinplates and sheets.....	1,150,741	919,596
Zinc, in blocks, pigs, etc.....	112,785	57,754

A year ago this spring, **HARDWARE AND METAL** referred to the unusually large quantity of low-priced bicycles which were being imported from the United States. The returns for the last fiscal year show the result of this, for, while the value was \$161,640 less than in 1897, the number was 3,874 greater. The number in 1898 was 27,400, and the average valuation of these was about \$21.45. There were a number brought in last spring which were entered at the Customs at \$9.50 without the tires.

The increase in agricultural implements,

in view of the improved condition of agriculture in the grain-growing Provinces of the Dominion, is what one might reasonably expect.

The railway companies in Canada, as well as those in the United States, have since the advent of better times been busy improving their rolling stock and roadbeds, and the returns reflect this. In engines and locomotives, for instance, we see an increase of over \$400,000, to say nothing of the demand that is being made upon the locomotive works at Kingston, Ont., for this class of rolling stock. Then, there is a similar increase in the importation of steel rails, and of over \$100,000 in railway fishplates and tieplates.

The past year or two has witnessed the construction and overhauling of a number of large railway bridges in Canada. This would explain the increase of over \$430,000 in the importation of iron and steel for bridge work.

The increase of over \$12,000 in the importation of skates was what might be expected after the persistent efforts that were put forth by the manufacturers in Germany.

In cutlery, the aggregate increase of over \$100,000 is a satisfactory evidence of the improved condition of trade in this line in Canada.

The increased importation of colors and other painters' material is satisfactory for the same reason.

Binder twine, it will be remembered, went upon the free list on January 1, 1898, consequently there were five months during which that article came in free, but in that time \$366,718 worth was imported, which, with the \$7,915 worth that came in before the free list went into operation, makes a total of \$374,633. The year before the total importation was \$180,190.

The increase in the importation of steel, which includes steel wire for manufacturing purposes, is particularly worthy of mention, showing as it does an increase of \$642,861, or over 254 per cent. In tinplates, too, it will be noticed, there is quite an increase in the importation.

Importations under the classification of "hardware" are, it will be noticed, valued at \$423,354. This, compared with the previous year, shows an increase of nearly 46 per cent.

ACCOUNT KEEPING IN A SMALL BUSINESS.

THE bookkeeping even in small business enterprises is an important feature, and one which should be looked after with care and minuteness. Nothing excites the suspicion of customers or is more annoying than inaccurate accounts and mistakes, especially if they are against the customer, and, while mistakes will now and then be made, even by the best accountants, the number may be greatly minimized by care and watchfulness and painstaking on the part of those who have this part of a business to look after. The work of bookkeepers, like that of civil engineers, is of little value if it is not accurate.

It is taken for granted that the proprietor of a business, say a retail store, has some knowledge of keeping accounts. Nearly everyone that can write, no matter how small or simple the business in which he is engaged, has to keep accounts in some form or other, so that those who have not studied the art at school or gained a knowledge of it by experience and practice should try to master at least the primary principles of account keeping as an essential to success in business.

As to the particular system of bookkeeping best adapted to a retail business, there are differences of opinion. Accounts may be kept, even in an extensive business, by the single entry system, but I think the double entry system much the better, not only for larger business concerns, but also for smaller ones. Practically, there is as much double entering and writing in single entry as there is in double entry.

In a small retail business, the double entry system can be modified and simplified so that it is easier to understand and to practice than single entry. About the only books needed in a small business are the day book, journal and ledger. The invoice book, sales book and cash book may be dispensed with, and all necessary accounts can be kept in the ledger. If necessary or desired, a small book can be used, in which to record cash sales, and the aggregate amount for each day can be entered in the day book thus:

Cash Acct. Cash sales this day—

The original bills of goods bought should be filed, and need not be entered in detail in any book, but are as available in this form as a record as if entered in an invoice book. The cash account can be kept as well in the ledger as in a separate book. In this way we practically dispense with at least three books and avoid a great deal of unnecessary writing. Not only so, but we have on the day book a sufficiently complete record of the day's

business to furnish all necessary data for the ledger. It is true we might dispense with the journal, and post directly from the day book to the ledger as per single entry, and thus still further simplify our method, but there would be greater likelihood of errors and omissions in posting in this way. Consequently, it is better to post everything from the day book to the journal, in which the items are entered in orderly arrangement, rendering posting to the ledger less difficult, and also guarding against errors which are readily detected by a failure of the debits and credits to exactly balance, both as regards individual groups of items and the total footings.

Journalizing to those who have not studied double entry may be a little difficult at first, but it will pay anyone not familiar with the process to learn it. It is hardly possible in an article like this to give the necessary information in detail, but with a view of giving those whose knowledge of bookkeeping is limited, and who may not have a work on the subject at hand, a general idea of this particular feature of the double entry system, I will mention a few points that should be observed. First, there must be a credit for every debit and vice versa. The thing received is debtor to the thing delivered. You sell or deliver goods to John Day. If he pays cash for them, the cash account must be debited and the merchandise account credited for the amount. If the goods are sold to him on account (on credit, as we say) then John Day's account is debited and merchandise is credited with the amount. If several persons on the same day buy goods from you on credit, you charge each of them with what they bought, on the day book. At the close of business for the day, you also enter on the day book the amount sold for cash that day. The aggregate of the credit and cash sales must be credited to the merchandise account, and the form of entering them on the journal will be thus:

JONESBURG, June 1, 189 .

Sundries to Mdse.....	\$28.00
John Day.....	\$10.00
Sam'l Wray.....	5.00
Peter Cart.....	3.00
Cash acct. Sales.....	10.00

The amount opposite the entry, Sunds. to

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

Mdse., is found by adding together the amounts charged to John Day and the others and the cash sales. This puts the several accounts in convenient shape for posting to the ledger.

In the same way, suppose several customers have paid money on account, which you have entered on the daybook thus :

John Day, by cash on acct.....	\$5.00
Jammel Wray, by cash.....	3.00

In the journal it will be entered thus :

Cash acct. Dr. to Sunds.....	\$8.00
John Day	\$5.00
Sam'l Wray.....	3.00

The above examples give a general idea of simple journalizing and the principles involved may be applied to almost any class of entries.—Trade Magazine.

AN ATTRACTIVE PAINT WAREHOUSE

THE Sherwin-Williams Co., the paint and varnish manufacturers, have the happy knack of doing well whatever they undertake. Their catalogues, booklets, advertisements and places of business, to say nothing of their manufactured products, all bear the impress of this quality.

A couple of months ago, it will be remembered, the company opened a branch in Toronto, securing at 86 York street a building of three storeys and basement. These premises have been renovated, and a few days ago **HARDWARE AND METAL** had the pleasure of being piloted through them by Mr. J. W. Ward, of the advertising department.

The front offices are bright, pretty and unique. Just inside the door, partitioned off by a brass tube, is the desk of the city traveler. In the centre of the room is a nicely polished table whereon are neatly arranged trade papers, booklets, etc., while against the western wall is an inviting settee.

Along the northern wall are two private offices, finished in natural wood, with partitions of glass reaching to the ceiling. Mr. Alex. Slater, the manager of the Toronto branch, occupies the office overlooking the street, and a nice bright office he has got. The other office is for the accommodation of country customers when they are in the city. It is furnished with a handsome roller-top desk, chairs, etc., and country customers when they are in the city, are invited to make the office their own to write letters or meet their friends.

A full line of the company's manufactures are carried at this branch. In the basement are the varnishes, japans, and heavy goods generally, while on the other flats are stored prepared paints and sundries. Throughout the building, there is a place for everything and everything is in its place, consequently there is neatness, order and cleanliness, which at once command the attention.

AN IMPROVEMENT IN HALTERS.

THE Oneida lock ring which The Oneida Community, Limited, of Niagara Falls, Ont., are now putting on all their "American" or "Flat Link" halters is so simple and valuable a device that it is surprising no one had thought of it before. Formerly all halters were fitted with stationary rings, but these had the disadvantage of always seeming to be in the wrong place: The ring never just where it was wanted; the noose was either too large or too small. To remedy this difficulty the slip ring was introduced. In many ways it was an improvement, but it did not work entirely satisfactorily. The noose was adjusted by simply pulling on the other end of the chain, and when it was fastened around the neck of the animal there was always danger of strangulation from its being pulled too tight.

The Oneida lock ring is designed to meet the objections to both the stationary and slip rings. Before the toggle is in place, it is practically a slip ring. It moves freely along the chain, and can be placed in any desired position. As soon, however, as the toggle is put in, the ring is locked securely, and cannot be moved until the toggle is taken out.

Although the lock ring was introduced but recently, the trade has been quick to appreciate its good points, and the popularity of "American" halters has been greatly increased on this account.

IT IS JUST THE THING.

Mr. James Heron, of J. Heron & Co., hardware merchants, East Toronto, under date of March 29, writes: "After reading the issue of your paper which you sent me, I think it just the thing that every hardware merchant should have, so will subscribe for it for the following year."

ONE FIRM'S CUTLERY OUTPUT.

According to an article which recently appeared in The Sheffield Independent, Joseph Rodgers & Sons, Limited, the cutlery manufacturers of that city, have in their employ 2,000 hands, while the weekly output of manufactured goods is about 60,000 table knives and forks, 3,000 carving knives and forks, 18,000 spring knives, 15,000 razors, and an equal number of scissors.

The Expanded Metal Co. of Canada, Limited, Toronto, has applied for a charter of incorporation.

J. R. McDonald, of New York, arrived in Moncton, N.B., on Saturday. He is to look over the cannel coal deposits of Baltimore, Albert county, and expects to start operations at an early day.

Thoroughness....

That's one of the potent factors in the success of our business. No detail is neglected. Nothing concerning our business is too small for our careful attention. Every part of our business has the same thorough care.

Every article used in our factory is minutely examined and tested, sometimes in many different ways. Often by more than one person. Nothing escapes us.

There is nothing done by chance—no guess work—all is exactness. This is one of the reasons why

THE SHERWIN- WILLIAMS PAINTS

are so satisfactory. No excellence is acquired apart from diligent, earnest effort. The success of S. W. P. is no accident.

It has succeeded because it deserves success—because it is worthy of success.

Do you sell it?

The Sherwin-Williams Co.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

A COSTLY BARGAIN.

By Tom Swallow.

"YES," said Mrs. Jacqueth, a lawyer's wife, of the town of Rochdale, "I got that rocking-chair you are sitting on from a departmental store for \$3.98. Don't you think it is a bargain?"

"No, I really don't," said her friend, Mrs. Stapleton, the doctor's wife. "If you only knew how much it really did cost, you wouldn't think so either."

"Why, whatever do you mean? That was all I really paid for it, except 40c. express charges."

"But that was not all it cost you, my dear Mrs. Jacqueth."

"Why, I can show you the bill, Mrs. Stapleton, if you doubt it."

"Let me explain, my dear. You know Mr. Douglass, the furniture and carpet man, on Main street? Well, he happened to be in the express office and saw this chair with your name attached, along with the name of the people you got it from. You are probably not aware that Mr. Douglass bought the Chisholm property? Up to the day he saw this chair in the express office, your husband had always done his legal business. He at once went off to Mr. Marshall, the other lawyer, and engaged him to search the titles and draw out the papers in connection with the transfer of the property. The doctor told me that Douglass gave Marshall a cheque for \$35 for his work. You know that Mr. Marshall's motto is 'that it is only just, right and proper to spend his money among the people where he makes his living,' so you see, my dear, this chair cost you really about \$25, allowing for Mr. Marshall's time doing the work."

When Jacqueth came home that evening to dinner, his wife told him about the mean way he had been treated by Douglass.

Mr. Jacqueth was a level-headed fellow, and saw through the whole thing at once. Said he: "Why a lot of people want to rush off and spend their money away from home, I cannot tell. Do you know, that blessed chair of yours has cost over \$25 already, and how much more it will cost when it gets abroad that I am sending away money to buy a lot of trumpery we don't want, I cannot tell. From this out, spend your money where I have to make my living."

The \$3.98 rocker was the last importation into the Jacqueth household.

A FALLACIOUS IDEA.

It is the opinion of most people that there is no farming land to speak of between North Bay and Winnipeg. This is a mistaken idea. Dryden is a town not four years old yet, and is situated on the main

line of the Canadian Pacific railway, midway between Fort William and Winnipeg, and on the outlet of Lake Wabigoon into the river of the same name, around which are about 170,000 acres of land. At present only about 1,000 have been taken. The land can be purchased for 50c. per acre.

Mr. Ludlow, one of Dryden's enterprising hardware merchants, stated that the town

has made rapid progress in the last two years.

A deputation from The Canada Copper Co., who waited on the Ontario Government on Tuesday, are reported to have agreed to construct a smelter and commence operations if the Government will give them 50c. per ton, the amount offered to the iron smelters at Midland and Deseronto.

Buy=Cycles Built Right!

Iver Johnson Cycles have Drop Forged Connections Throughout.

This is the right way, the strongest way and best way.
Send for free descriptive book. Models from \$40 to \$75.

HONEST CYCLES AT HONEST PRICES.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

GILBERTSON'S

"COMET"

BRAND

Patent Flattened Galvanized Steel Sheets

made of superior Siemens Steel, by the most experienced workmen; smooth, well galvanized

and carefully selected; will double seam either way of grain; are fully equal in weight and count of sheets per ton, as well as in quality and finish, to the best known brands imported, and cost less.

GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

If your jobber does not keep these brands address,

ALEXANDER GIBB

Agent . . .

22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

Wholesale Only

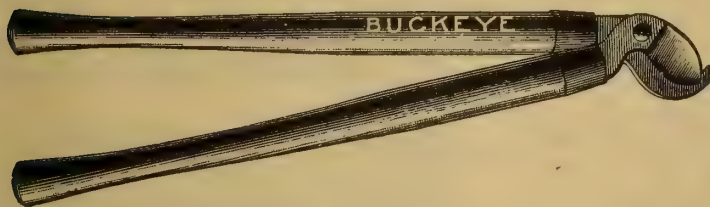
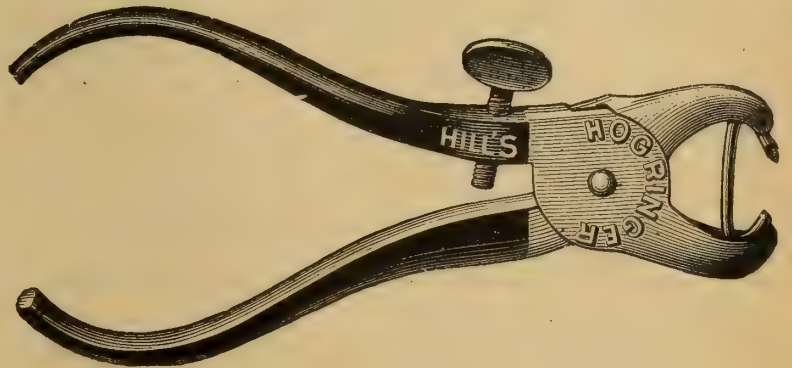
37-39 Front Street West, TORONTO



Kent Corn Planters.

TRIUMPH.

TRIUMPH, with Pumpkin Seed Attachment.



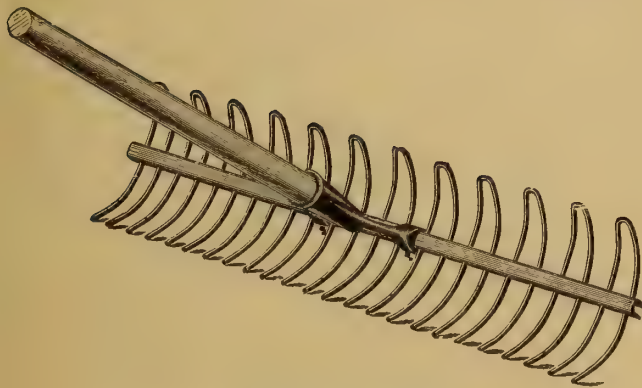
Tree Pruners.

TREE PRUNERS, 6, 8, 10 feet.

BUCKEYE, 1 x 26, 2 x 30.

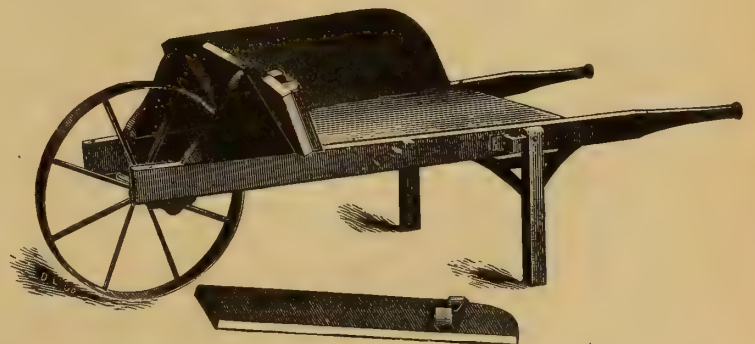


Hill's Hog Rings and Ringers.



Queen Lawn Rakes.

Also GIBB'S Wire Teeth and KING Wood Teeth.



Wheelbarrows (all kinds.)

Wholesale
Only.

H. S. Howland, Sons & Co.
Toronto.

We Ship
Promptly.

GRAHAM WIRE AND CUT NAILS ARE THE BEST.

AMERICAN AND BRITISH BESSEMER STEEL OUTPUT.

SPEAKING of the production of British and American Bessemer steel during 1898, the London Iron and Coal Trades Review remarks that the comparison is interesting and unusually suggestive. The British works have not kept up their output to the level of the previous year—they have, indeed, fallen behind it to the extent of 124,769 tons—whereas the American works have increased the output for 1898 by 1,333,702 tons or 20 per cent., and have reached in that year the largest make in the history of the Bessemer steel trade. The American production of Bessemer steel ingots was nearly four times as much as that of Great Britain, being 6,609,017 tons, against 1,759,386 tons. On the other hand, however, the American production of rails was less than three times the volume of the British output, being 1,955,427 tons, against 751,591 tons. These figures appear to make it clear that the British Bessemer steel producers are not finding so many and such important outlets for their manufactured steel as the American Bessemer steel manufacturers. Nearly one-half of the total British Bessemer steel production still takes the form of rails, while less than one-third of the American output is applied to railway purposes. It would surely be worth the while of the British Bessemer manufacturers to consider how this difference arises, and whether an investigation of the special conditions of the United States would not be likely to help them to a more diversified market for their own profit.

The serious decline in the British Bessemer rail production is mainly due to the success of American competition. In the export of steel rails it has been more than usually aggressive. During the year 1898 the American steel rail manufacturers have exported nearly 300,000 tons of rails, which is nearly twice as much as the largest exports of any former year, while the British rail exports have fallen materially between 1897 and 1898. Of course, we do not say that the American rails have uniformly been made and exported at a profit, whereas we know that British export prices have in 1898 admitted of a fair profit to works that stuck by the established price of £4 12s. 6d. per ton. We have probably lost a good deal of export tonnage by adhering to this figure. It is, however, evident that we could not have taken all the orders that were seized by our American rivals without working at a loss, and that no sound business concern can afford to do or is likely to attempt to do as a regular thing. The Bessemer steel industry is at present in a parlous state. Probably it is the most threatened of all our leading metallurgical industries. It is im-

possible, one would think, that the United States can themselves find a market for nearly 7,000,000 tons of Bessemer steel annually, and especially as the output of their open-hearth works is this year expected to approximate 2,000,000 tons.

DECAY OF THE SHEFFIELD SCISSOR TRADE.

Few branches of the old Sheffield industries have undergone greater change in the last few years than the scissor trade. It would seem that the old demand for the more expensive ornamental scissor has almost died out, both at home and abroad, and firms who, ten years ago could keep well employed half-a-dozen filers of fine scissors, have not now sufficient work for even one. It may seem somewhat surprising, but, years ago, Russia was one of the best markets for these more costly goods, and took very considerable quantities of them at 60s. per dozen. Now, scarcely an order comes into the city from that country.

The rage is for cheap showy goods, such as are produced by the Germans, and Sheffield manufacturers are only winning back some of their trade by competing with the continental makers in their own cheap lines. The present condition of the trade is largely traceable to a lamentable strike which took place some years ago, during which, local production being stopped, manufacturers filled their orders with cheap goods from Germany.

These German goods were then freely sent out, both into the home and distant markets, by the Sheffield manufacturers, and as time went on they were followed by the representatives of German houses, who pointed out that they were of German origin, and that if the customers would buy direct, instead of through Sheffield manufacturers and merchants, they could be supplied at very much lower cost. In that way the German goods got a hold of the market that has since been not only retained but extended.—Hardwareman.

BRANTFORD HARDWAREMEN.

Howey & Feeley, Brantford, have met with decided success in their new premises on Colborne street west, having added a fine stock of shelf hardware to their stove and furnace trade, Mr. Feeley being a practical man in the latter, while the former is held to the front by Mr. Howey.

Mr. T. Y. Morton, hardware merchant, Brantford, has been succeeded by A. Ballantyne, Stratford.

Misener Bros., grocers and hardware merchants, East Brantford, have just completed a new block of stores adjoining their old stand, into which they are moving. Their new premises are convenient as well as handsome.

Emery and Hardware Specialties

Hamilton, Ont. COOKE HARDWARE CO.



COVERT MFG. CO.

West Troy, N.Y.

Steel Carriage and Wagon Jacks,

Harness Snaps, Chain, Rope and Web Goods, etc.

FOR SALE BY JOBBERS AT MFERS PRICES.

PRIEST'S CLIPPERS

BALL BEARINGS

Largest Variety, Toilet, Hand, Electric Power ARE THE BEST. Highest Quality Grooming and Sheep-Shearing Machines. WE MAKE THEM.

SEND FOR CATALOGUE TO

American Shearer Mfg. Co., Nashua, N.H., USA



COATES' CLIPPERS

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co. WORCESTER, MASS.



McLaskill, Dougall & Co
Fine Varnish & Japan
Manufacturers.
Montreal
Price Lists on application

Size, 3/4-inch.



Cheapest
IN THE
WORLD.

J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet



Made entirely of Metal, and Ventilated.

Designed for dwellings and places where water closets cannot be used.

Price, \$15.00

Write for circulars and trade discounts.

16 Queen St. East, TORONTO.

Headquarters for Builders' Castings, Sash Weights, etc.

THE TORONTO FURNACE AND CREMATORY CO., Limited

HEADQUARTERS.

Sanderson Percy & Co.

FINE COLORS, WINDOW GLASS, ETC.

- - - - TORONTO - - - -

A GOLDEN OPPORTUNITY.

THE METAL WORKER feels that there is no more important subject that we can present at present to the retail store and furnace trade than the necessity of some concerted action to be taken for their mutual benefit, and this action should be done without delay, for time is passing rapidly and spring work will be pressing, contracts must be made, and without some good understanding between competitors the same state of affairs of absurdly low prices will continue as in the past. We feel that we are only doing our duty to urge the matter and bring it before the trade, and it lies with them to reject the idea or carry it out, as they see fit. We expect differences of opinion, and honest ones, too, from some who do not believe any good can be accomplished by such efforts, but, in view of the business situation, is it not worth while to make the effort? In business, as well as in the religious societies, there exist great differences of opinion as to the right modes of reaching desired results. No doubt exists in any religious denomination but that they have the best system for the good of mankind, and, if only the other sects would adopt their ideas, the millenium would be close upon us; but, notwithstanding this, each sect pursues its own course, and the natural antipathy to each other's schemes for the benefit of the human race keeps them apart.

Now, business has but one real objective point, and that is to make money, and it is not necessary to quibble over what is meant by making money, we all understand it. It is quite common for people to say, "We are not in business for our health," never deeming it necessary to explain any more about it. Business has a set of well defined laws, written and unwritten, that are as clear as to rewards and punishments as statute law is in all civil government. If all business men obeyed these laws the business man's day of rejoicing would be here.

Why they do not cannot be answered any more than the religious question of the separation of sects. Now, to come right to the point we are driving at, The Metal Worker has been urging the retailers to take counsel among themselves to see if they cannot all get a share of the better profits that are in sight, and we believe it can be largely aided by some united action of the dealers. We know and the reader knows what will be the response when this scheme is broached in his neighborhood, and it is not necessary to note them here, but it can be summed up this way: "That it is of no use to try it in our town, we have been there," etc. Granted that nothing but failure has attended these efforts, that is no reason why a new effort should not be made. It is in the present and in the future that money is to be made, and not in the past. We do not wonder so much that our humanitarian associations differ regarding methods, but it is a wonder that this matter of making money, which appeals so strongly to the present, should be left so much to chance, when some united effort would so greatly facilitate the process.—Metal Worker.

THE RETAIL MERCHANT OF 1900.

What changes may we look for within the next few years? This is the query on which all retailers with small capital may well ponder. Already the thoughtful merchant has recognized the necessity for the adoption of safeguards to prevent the loss of capital. It may be said that hard times have made people the more careful of their dimes, or that the great department stores in the cities, with their peculiar methods, have made a hole in the small merchant's profit, or that it is the ever-extending trolley line or the frequent cheap excursions to the large centres. It may be said that it is the mail-order houses supplying the consumer. But, say what you will, there is no denying the fact that changes have come and that

changes are still going on. Let every merchant, therefore, fortify his business by adopting the soundest rules. Let him collect his accounts promptly; let him sell more nearly for cash; let him meet competition rationally; let him push profitable goods energetically and restrict his buying to what he can sell, and sell quickly. The necessity of the hour is to make the business pay, whatever it is, or else the retailer must prepare to join the wage-workers of the world with whatever grace he can command.—John T. Plummer.

TRADE CHAT.

The British Columbia Anchor Fence Co., has been incorporated. The headquarters are in Vancouver.

The liabilities of Amedee Perier, hardware dealer, Montreal, who recently assigned, are placed at \$1,000.

The Victoria Cooperative Store Co., Limited, Victoria Mines, B.C., has declared a dividend of 25 per cent.

The Laing Implement Manufacturing Co., of Essex, Ont., is considering the removal of its works to Chatham, Ont.

The Customs imports at Toronto last month amounted to \$979,780, being an increase over last year of \$448,002.

The summer freight rates on the G.T.R. and C.P.R. went into effect on Saturday. The rates are almost the same as last year, one exception being a reduction in the rate per hundred from Montreal to Toronto from 40 cents to 38 cents, and other rates to eastern points in proportion. There was no change in western rates.

The number of business failures in Canada for the first three months of 1899 was 399, with liabilities of \$2,976,229 and assets of \$1,221,213, as compared with 516 failures, with liabilities of \$3,840,496 and assets \$1,758,851 in the corresponding period last year. This shows a decrease of 23 per cent. in the number of failures, which are only about half as many as in 1896.

CHAINS, BOTH BIG AND LITTLE.

AMONG the curiosities which were preserved in the old State Library at Albany none attracted more attention than the few links of the monster chain which did service in the days of the Revolution to prevent the progress of the British ships up the Hudson river. The great chain, with links more than two feet in length, was stretched across the river near West Point, and remnants of the unique blockading material are preserved in various parts of the country, several links being in the possession of Abram S. Hewitt.

Bombs, mines, fortifications and torpedoes have taken the place of the chain as a barrier against ships, but monster chains are still manufactured in large quantities, and The Jones & Laughlins Company is now making a chain the links of which are formed out of rolled steel three inches in diameter. Welding by electricity, winding the metal rod from which the links are made around a mandril, cutting the pieces by machinery and joining them by blows from powerful steam hammers, binding the links and testing the completed chains with hydraulic pressure are all modern processes in the chain-making industry, but the great chains used in the shipbuilding trade are much as they were made many years ago. But, according to the statement of a manufacturer, the American now has the satisfaction of using the product of American shops. Formerly, and until about 10 years ago, about 90 per cent. of the chains used in the United States came from England, and now fully 95 per cent. of the amount consumed are made in this country. Some concerns carry English chains in stock in order to be able to supply English ships, whose commanders usually refuse to buy any other than chains which have a British stamp.

The commercial article, as made in this country, ranges from three-sixteenths of an inch to one and three-quarter inches, and no chains are put on the market unless they have been tested. Thus, a three-sixteenth-inch chain of five pounds average weight per foot is guaranteed to hold 700 pounds, and the better grades as high as 900 pounds. A one-inch chain which weighs about ten pounds to the foot will hold 24,000 pounds, and a chain with links of one and three-quarter inches, weighing thirty-one pounds to the foot, is supposed to resist 71,600 pounds, and the best quality of the same sized chain is marked "Proof 90,575 pounds."

In an interesting article on the subject of chains an English writer points to the fact that, notwithstanding the frequent mention of chains in the Bible, the article is comparatively new. The same author says:

"Some authorities give the Britons credit for originating the cable chain because Julius Cæsar is recorded as having been unable to cut the cables of the Gauls' vessels, 'as they were made of iron.' This may have been a chain in the present acceptance of the term, but it is doubtful, because the first patent for chain-making was obtained in England in 1634 by a blacksmith named Philip White. The patent was for fourteen years, and, in consideration of it, White had to pay £5 in lawful money yearly 'at the Exchequer, Westminster, at the Feast of the Blessed Virgyn and St. Michell the Archangell by even and equal process.' His patent is described as follows: 'A way for the wearing of shippes with iron chaynes by finding out the true heating, (pre) paring and tempering of Iyron for that (pur) pose, and that he hath nowe attained to the true vse of the said chaynes, and that the same wilbe for the great saveing of cordage and safety of shippers, and will redound to the good of our Comon Wealth.'"—New York Tribune.

EFFECTIVE WINDOW DISPLAYS.

This is the period when window displays can be made most telling and effective, remarks Stoves and Hardware Reporter. People are in the buying humor in the spring and are continually looking about, seeking for the best values and the most attractive and desirable goods. Let the hardware dealer put his best foot foremost and make the most of his opportunities. The show-window is a most efficacious silent salesman, more eloquent and persuasive often than the average clerk. More people see the contents of a window than the interior of the store.

Looking in display windows has come to be a habit with almost everyone; and unconsciously they also contract the habit of judging the stock in trade by the goods displayed in the show-window. Frequently enough they will fall into the error of imagining that if the desired goods are not in the window that the store does not carry them in stock at all. Sometimes would-be purchasers pass along down the street looking into various windows comparing values, qualities and designs before making up their minds which store they will enter and do their buying.

The reason they do this is because it is so much easier and requires less time than to go into the store and ask the clerk to show the goods. For these reasons, then, it will be a diplomatic move on the part of the enterprising merchant to select the most seasonable goods from his stock, arrange them in a most attractive manner, with a lavish use of price marks, and thus they will act as a dam to the stream of prospective customers which flows towards his door

every day. It would also be well for merchants to evolve some clever and original idea to attract attention to the display primarily; then let the goods do the rest.

COKE WORKS TO BE STARTED.

THE HERALD, of North Sydney, Cape Breton, says The Nova Scotia Steel Company have decided to establish works within the limits of that town for the manufacture of coke.

Graham Fraser, manager of The Nova Scotia Steel Works, accompanied by Mr. Chambers, the company's mining engineer, spent the week before last in North Sydney. Mr. Fraser made a thorough examination of the town, and instructed his engineer to make a thorough survey, which is being done with the assistance of James Purvés, C. E.

The most suitable site for the proposed coke works is between the Bras d'Or road near the trotting park and the North Sydney railway station. This large stretch of level land is highly adapted, not only for the coke works, but other far more extensive works which are to follow. From 500 to 1,000 acres will be required. Besides the ground being level and most suitable, it is adjacent to Pottle's Lake, which is over two miles square, and which is fed by springs from the surrounding mountains, giving ample water for any purpose.

The site is close to the Intercolonial railway and to North Sydney harbor, which is open for shipping at least ten months out of the twelve. Then, again, coal from the G.M.A. can be dumped off the cars alongside the works. This coal was tested at the New Glasgow steel works last year, and found to be the very best for coke and smelting, and freer of sulphur than coal from any other mine in the Province. Again, the George's river iron deposit is quite close, where, also, there is an abundance of limestone.

In order to secure abundance of this article, Mr. Fraser has bonded the extensive limestone deposits at Point Edward and North West Arm.

As Mr. Fraser remarked, no locality is more suitable for extensive iron and coke manufacturing works than the site referred to, as it is surrounded by all necessary advantages. Work is soon to begin on the coke works. At present the company will draw the coal from Cape Breton to Ferrona for the manufacture of coke. It takes two cars of coal to make one of coke. Thus by manufacturing the coal here it will save an immense amount of cost of haulage, apart from the fact that Cape Breton limestone is on the spot and of superior quality to that found elsewhere. In a short time, therefore, active operations may be expected in the erection of the necessary plant for the manufacture of coke.

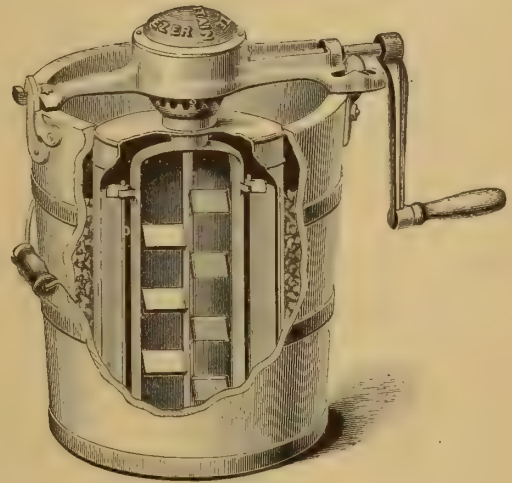
EVERY GOOD THING

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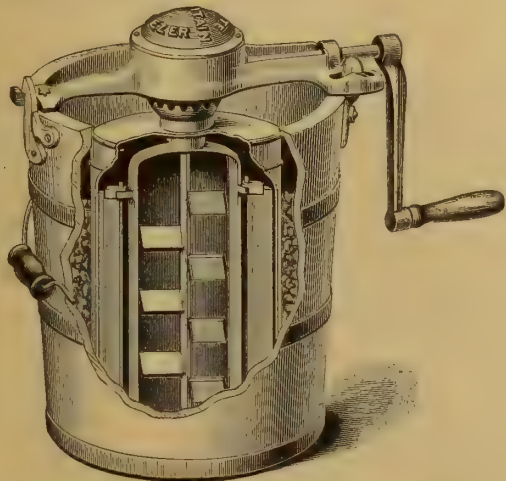
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N. H., U. S. A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, April 7, 1899.

HARDWARE.

WHILE new business has not been of much greater volume during the past week, there has been an active movement of goods from warehouse, on old orders held pending the inception of spring freights. The general firmness of tone that has characterized the markets is quite as marked. Wire is firm at the rise, and wire nails are stiff with a fair demand, the same applying to cut nails. Horseshoes and horse nails also exhibit a fair degree of activity. The quarterly meetings of the different manufacturers commenced on Wednesday.

BARBED WIRE—There is no great activity to note, but the market rules firm at \$2.70 f.o.b. Montreal.

PLAIN WIRE—Business is quiet, while values are firm at the rise quoted last week, the base price being \$2.45 f.o.b. here. Extras as per list already published.

FINE STEEL WIRE—Firmly held, with trade quiet, discounts being 25 per cent.

STAPLES—As last quoted: Galvanized fence staples \$2.75 per keg of 100 lb.; cooper and poultry netting do. 15 per cent., and electrical, broom and bed, etc., 10 per cent. discount off regular list.

WIRE NAILS—There is a moderate demand for wire nails, and values are firm, the base ranging from \$2.50 to \$2.55 f.o.b., according to quantity.

CUT NAILS—Business has continued fair, the base being \$1.85 per keg, with the usual rebate. Flour barrel nails, 40 per cent.; coopers' nails 50 per cent.; galvanized roofing nails, 8c., with 25 off, and boat nails, black and galvanized, 40 per cent.

ESCUTCHEON PINS—Quiet and steady. brass 60 per cent. and steel 45 per cent.

PRESSED SPIKES—Without change, at 40 per cent.

HORSESHOES—There is a fair inquiry for these. We quote: Iron horseshoes, light and medium pattern, \$3.15; snow shoes, \$3.40; XL steel shoes, new light pattern, all sizes, 1 to 5, \$3.35; featherweight, all sizes, Nos.

0 to 4, \$4.30; and toe weight steel shoes, all forward, \$5.50.

HORSE NAILS—Demand for these moderately brisk: Standard brands 50 per cent., and Acadian 50 and 20 per cent.

TACKS—A meeting of makers is being held, but no change is yet announced. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 50 per cent. off; tinned do., \$6 per gross with same discount.

DOUBLE-POINTED TACKS—Fair business: In dozens, 85 and 30 per cent.; in bulk, 10 per cent. off list.

SCREWS—The advance in screws has not led to any difference in business, which is quiet. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

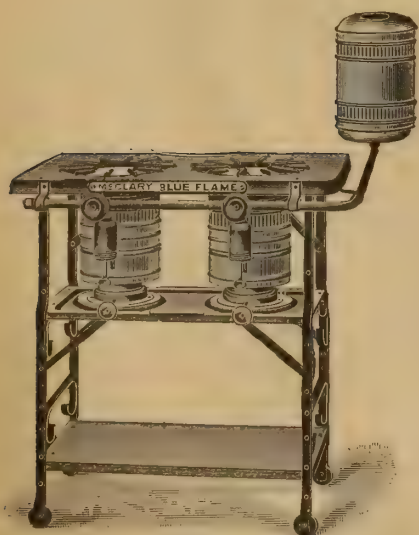
BOLTS—A fair trade is doing. Discounts are as follows: Carriage bolts, 5-16, and under are now 60 and 15 per cent. off list; ¾ and larger, 62½. Machine bolts, all sizes are 60 and 15; coach screws, 75 and

Wickless ^{BLUE} ^{FLAME} Oil Stoves

BURN COAL OIL

DESCRIPTION.—They have no wick, and are thus easily kept clean.

The Oil Tank is made of polished brass and is placed at the back of stove, away from any heat. It is of a telescopic pattern, and has an automatic valve which admits only the required amount of oil to the stove at a time. The removable inner tank can be carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.



NO. 04—2 BURNERS, HIGH FRAME.

Mounted on Casters.

Height,
27 inches.

Size of top,
17x25 inches.

Weight, crated,
40 pounds.

The Valves are of a material that cannot corrode, thus insuring permanent control of the stove.

Our Patent Sight Feed is a revelation, being a wonderfully simple arrangement for measuring and supplying just sufficient oil to suit the user. It always has in readiness, just enough oil (by measure) to start the burner.

To Light the Stove—Open the small valve below the sight feed to let the measured oil into the burner; then close it, light the burner, and at the same time turn on whatever amount of oil you wish. The stove is *instantly started* and no further attention is necessary.

The Oil thus started, burns with a clear blue flame, **without smoke**, and gives a heat of the greatest intensity.

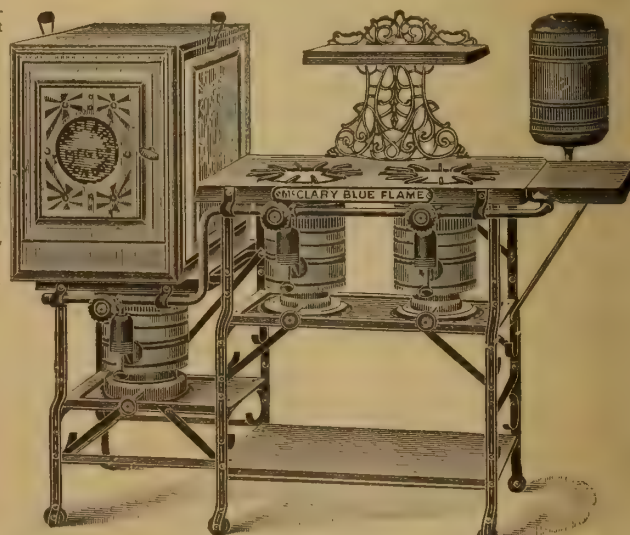
The Steel Frame is strong, and is handsomely striped with gold.

It Makes No Difference whether the oil is good or bad, heavy or light, thick or thin, hot or cold, the stove works equally well, producing an intensely hot, smokeless, blue flame.

Turn on the Oil. Touch a Match.
The Burner Does the Rest.
Cooks Instantly. No Delays.

Special list on application.

When you want your goods
quickly, order from
McClarys.



NO. 06—3 BURNERS, WITH STEP.

Mounted on Casters.

With Ornamental Back Shelf and Broad End Shelf.
13-inch burner under step.

Height,
27 inches.

Size of top,
17x25 inches.

Size of step,
14½x17 inches.

Weight crated,
65 pounds.

THE McCLARY MFG. CO.

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



There is no virtue of galvanized iron, not found in Apollo; there is no fault, not found in the common makes.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardwaré, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Manufacturers of Limited

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que. Three Rivers.
Lac a lac Tortue. Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

10, and sleighshoe bolts, 80 per cent. off list.

RIVETS AND BURRS—The same remarks apply to these: Black and tinned, 60 per cent.; do. burrs, 50 per cent., and copper rivets 37½ per cent.

CORDAGE—The cordage market has at last given some response to the strength outside and prices have advanced ¼c. per lb., the inside on manila now being 10¾c., and on sisal 9¾c.

HINGES—Without change. We quote: Heavy T and strap \$4, and light ditto, 70 and 5 off the list.

SHOT—Quiet and steady: 6c. for ordinary, and 6½c. for chilled.

CEMENT—Commission men here this week gave out spring prices on imported cement, which are precisely the same ex wharf as those which have been quoted ex store for the winter months, viz.: Belgian, \$1.90 to \$2.10; English, \$2.30 to \$2.40; and German, \$2.45 to \$2.65 per cask ex wharf. Several small sales aggregating 2,000 bbls. have been made at the above range to arrive.

FIREBRICKS—Demand is good for firebricks and stocks are light. Prices have advanced \$1 to \$3 per 1,000, the range now being \$19 to \$26, and for first arrivals they are being quoted ex wharf at \$17 to \$23.

METALS.

The heavy iron and metal market is strong on the whole, though there has been no further appreciation in heavy iron prices at producing centres. Copper, metals and lead, however, all rule stronger, both in New York and in London.

PIG IRON—There is a very firm feeling in this material, though no quotable change is to report. Scotch pig is very scarce here, and No. 1 Summerlee and equal brands are quoted at \$21 to \$22, as to grade, while domestic brands are held firm, No. 1 Hamilton having been placed at \$17 to \$18 as to quantity.

BAR IRON—The strong feeling in bar iron continues quite marked, and we quote \$1.50 to \$1.55.

HOOP IRON—Steady at \$2.45.

SHEET IRON—Firmly held, with prices difficult to quote.

STEEL—Firmly held for all sorts. Tire and sleighshoe steel have been advanced 25c., to \$2.25 base, and toe calk is marked up to \$2.75, while spring steel is held firm at \$2.40.

GALVANIZED IRON—Demand for galvanized iron is quite active, but stocks are light here and business is restricted. For importation firm values are asked, and cost to arrive after opening of navigation leaves little margin in existing prices ex store. Prices are firmer in consequence, at \$4.65

—FOR—

Sheet Steel

of all kinds

Write

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.
Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

**PIG TIN
INGOT COPPER
PIG LEAD**

Market strong, and advancing.
Wire for prices.

NOVA SCOTIA STEEL CO.
Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

to \$4.75 for No. 28 "Queen's Head," and \$4.25 to \$4.45 for "Comet"

INGOT COPPER—Values in London have advanced 2s. per ton, and are up $\frac{1}{4}$ to $\frac{1}{2}$ c. in New York, and prices here are rather stiffer at 18 $\frac{1}{2}$ to 19c.

SHEET COPPER—Demand moderate and prices steady: 25c. for plain and 27c. for tinned.

INGOT TIN—There has been a stronger feeling in this metal outside, the London market being £1 10s. higher than a week ago, while 45c. per 100 lb. advance has been asked lately at New York. On spot, values are stiff at 26 to 26 $\frac{1}{2}$ c.

PIG LEAD—The outside markets, which were easier last week, have again stiffened, prices advancing 1s. 3d. in London lately. Here values are firm, with a moderate business at 4 $\frac{1}{8}$ to 4 $\frac{1}{4}$ c.

LEAD PIPE—Prices steady. Ordinary, 7c., and composition waste 7 $\frac{1}{2}$ c. with discounts 17 $\frac{1}{2}$ per cent.

IRON PIPE—Firmly held with a good inquiry. We quote as follows: Black pipe, $\frac{1}{4}$ -inch, \$2.90; $\frac{3}{8}$ -inch, \$2.90; $\frac{1}{2}$ -inch, \$2.75; $\frac{3}{4}$ -inch, \$3.10; 1-inch, \$4.40; 1 $\frac{1}{4}$ -inch, \$5.90; 1 $\frac{1}{2}$ -inch, \$7.15, and 2-inch, \$9.70. Galvanized pipe, $\frac{3}{8}$ -inch, \$5.55; $\frac{1}{2}$ -inch, \$5.90; $\frac{3}{4}$ -inch, \$6.55; 1-inch, \$8.95; 1 $\frac{1}{4}$ -inch, \$12.40; 1 $\frac{1}{2}$ -inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATES—Several round lots of Canada plates have been moved, further reducing stocks here. For importation values are firmly held. We quote as follows: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—There is a good inquiry for tinplates. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Firmly held, with stocks in small compass, at \$6.25 base.

COIL CHAIN—Moderate trade. We quote: No. 6, 9 $\frac{3}{4}$ c.; No. 5, 8 $\frac{1}{4}$ c.; No. 4, 7 $\frac{1}{2}$ c., and No. 3, 6 $\frac{1}{2}$ c. per lb.; $\frac{1}{4}$ -inch, \$5.50; 5-16, \$4.25; $\frac{3}{8}$, \$3.85; 7-16, \$3.70; $\frac{1}{2}$, \$3.55; 9-16, \$3.40; $\frac{5}{8}$, \$3.25; $\frac{3}{4}$, \$3.15, and $\frac{7}{8}$, \$3.00 per 100 lb.

SHEET ZINC—Firmly held, with prices stiff at 8 to 8 $\frac{1}{4}$ c.

ANTIMONY—Unchanged at 10 to 11c.

SPELTER—Very strong, with V.M. \$6.75, and S.S. \$6 50.

GLASS.

A good movement is noted in window glass, and values are steady. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth,

\$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Booking in this department continues to be light, but all the makers are reported busy shipping out spring orders previously booked and held for freight rates, which went into effect on April 1. The various associations met this week at Montreal, and, after discussing prices of white lead, mixed paints, etc., it was decided to make no further advance in the meantime. Linseed oil is quoted at an advance of 10s. in England, and a corresponding advance is looked for here within a few days. Turpentine continues extremely scarce, but without change in quotation.

WHITE LEAD—Best brands, Government standard, \$5.87 $\frac{1}{2}$; No. 1, \$5.50; No. 2, \$5.12 $\frac{1}{2}$; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5 $\frac{1}{2}$ c.; in oil, pure, 8c.; No. 1, 6 $\frac{1}{2}$ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 49c.; boiled, 52c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8 $\frac{1}{4}$ to 8 $\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37 $\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4 $\frac{1}{2}$ to 5 $\frac{1}{2}$ c. for colored, and 6 to 7 $\frac{1}{2}$ c. for white; oakum, 5 $\frac{1}{2}$ to 6 $\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13 $\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, 16 $\frac{1}{2}$ c.; 1-lb. tins, 15 $\frac{1}{2}$ c.

MONTREAL NOTES.

There has been an advance of $\frac{1}{4}$ to $\frac{1}{2}$ c. in manila and sisal cordage.

Galvanized iron is from $\frac{1}{4}$ to $\frac{3}{8}$ c. higher than it was last week in this market.

Pig lead, which was weak last week, is again firmer, being 1c. 3d. higher in Great Britain.

Ingot tin is £1 10s. higher in London

Oakey's 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN Oakey & Sons Limited

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street

MONTREAL



FOR

Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps

Everything in the stamp line.

SEND TO THE

Hamilton Stamp & Stencil
DATER. 25c. Works, Hamilton, Ont.

Steel Tray Wheelbarrows

Tubular
Meaford (Columbus)
Railroad or Navy

With Steel Trays (Pan American).

Eastern Agent

ALEXANDER GIBB

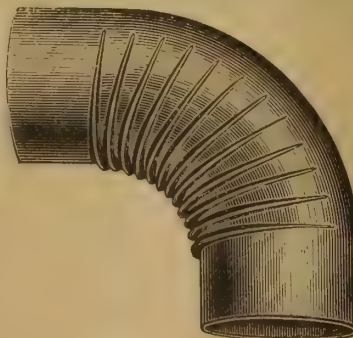
22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

E. T. Wright & Co.

Manufacturers and sole owners

SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

than it was last week, and 45c. per 100 lb. up in New York.

Tire and sleighshoe steel have been advanced another 25c. per 100 lb.; also toe calk and spring steel.

Copper has advanced 2s. the ton in Great Britain and $\frac{1}{4}$ to $\frac{1}{2}$ c. per lb. in New York on prices of a week ago.

The Syracuse Smelting Co. say that notwithstanding the recent rise in the price of babbitt and other metals, they are still selling their goods at reduced prices.

Lamplough & McNaughton report that reloading sets for Snider shot cartridges are selling beyond expectations. All unfilled orders will be completed in a few days.

ONTARIO MARKETS.

TORONTO, April 7, 1899.

HARDWARE.

LOCAL wholesale houses are pretty busy this week. In addition to the orders now being received, there is the preparation of shipments for forwarding, and this is keeping all hands well employed. As far as prices are concerned, the most important change is the advance in the price of cast iron hardware of Canadian manufacture, the figures being marked up from 10 to 33 $\frac{1}{2}$ per cent. Planes have also been advanced 20 per cent. by the manufacturers. Rope, both sisal and Manila, is $\frac{1}{2}$ c. per lb. dearer. The manufacturers, at a meeting in Montreal this week, advanced the price of tacks and bolts. Wire nails are quiet, but still firm in price. Business in wire continues quiet. In churns and wringers, a good business is to be noted. Enameled ware and tinware are moving fairly well. Shipments are being made of eavetroughs booked some time ago. There is some inquiry for oil and gas stoves, and there have been a good many of the latter ordered on city account during the past week. A good business is being done in poultry netting. Trade in building paper is steady. Trade in screws continues active, and a good business is to be noted in bolts.

BARBED WIRE—Trade is quiet and prices are firm and unchanged. We quote f.o.b. Toronto as follows: Barbed wire, \$2.75 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.75. Staples are quoted at \$3 for galvanized, and \$2.75 for bright. Terms, 2 per cent. off 10 days.

SMOOTH STEEL WIRE—There is no improvement in business, but prices are maintained at the recent advance. The base is still \$2.45 f.o.b. factory.

FINE STEEL WIRE—There is no change to note in this line, the volume of business still light and the discount unchanged at 25 per cent. factory.

BEAUTY and ECONOMY

Are both gained by using our

METALLIC

Ceilings and Walls

We make a vast variety of artistic designs, with borders, moldings, etc., to match, handsome enough to suit the most capricious taste.

They don't crack or drop—can be readily cleaned—are fireproof and sanitary—and more durable than any other interior finish.

These points easily commend them to all customers.

Write for our catalogue and be ready for the spring trade.



Sample Design, Plate No. 229.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

WIRE NAILS—A general quietness pervades this market, but there is no change in prices, quotations still being firmly adhered to. We quote base price at \$2.55 Toronto and west, and \$2.50 east of Toronto.

CUT NAILS—Business is just moderate, and prices are unchanged. We quote base price at \$1.85 per keg f.o.b. Toronto, Hamilton and London, with 5c. per keg rebate.

HORSE NAILS—There is not a great deal doing, but prices are unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Business is fairly good in this line, and prices are firm, with a possibility of an advance. We quote as follows: Iron shoes, light, medium and heavy, \$3.25, f.o.b. Toronto, Hamilton, London, Guelph, St. John and Halifax.

SCREWS—In an editorial article which appeared in last week's issue, the discount on round head bronze was given 67 $\frac{1}{2}$ and 5 per cent. It should have been 62 $\frac{1}{2}$ and 5 per cent., as given in the market report. Business in screws continues good, and prices are being firmly maintained. We now quote as follows: Flat head bright, 82 $\frac{1}{2}$ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67 $\frac{1}{2}$ and 5 per cent.; flat head bronze, 67 $\frac{1}{2}$ and 5 per cent.; round head bronze, 62 $\frac{1}{2}$ and 5 per cent.

BOLTS—Trade in this line is still being well maintained. We quote: Common carriage 5-16 and under, 60 and 15 per cent.; ditto, $\frac{3}{8}$ and larger, 62 $\frac{1}{2}$ per cent.; machine bolts, all sizes, 60 and 15 per cent.; coach

screws, 75 and 10 per cent.; sleighshoe bolts, 80 per cent.; blank bolts, 60 and 15 per cent.; plough bolts, 60 per cent.; stove bolts, 70 and 5 per cent.; bolt ends, 60 and 15 per cent.; nuts, square, 4 $\frac{1}{2}$ c.; ditto, hexagon, 5c.; tapping nuts, 70 per cent.

RIVETS AND BURRS—Trade is fair without any particular feature. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 37 $\frac{1}{2}$ per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—In sympathy with the advance in the price of raw material, quotations on both sisal and manila rope have been advanced $\frac{1}{4}$ c. per lb., and we now quote as follows: Sisal, 7-16 in. and larger, 10c. per lb.; $\frac{3}{8}$ in., 10 $\frac{1}{2}$ c.; $\frac{1}{4}$ and 5-16 in., 11c. Manila, 7-16 in. and larger, 10 $\frac{1}{2}$ c. per lb.; $\frac{3}{8}$ in., 11c.; $\frac{1}{4}$ and 5-16 in., 11 $\frac{1}{2}$ c. New Zealand rope has been advanced to 9 $\frac{1}{2}$ c. per lb. Other quotations are: Deep sea line, 13 $\frac{1}{2}$ c. for water laid, and 14 $\frac{1}{2}$ c. for machine-made; hemp, 7 to 9c.; lath yarn, 8 $\frac{3}{4}$ c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business is good in this line and prices unchanged. No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

BUILDING PAPER—A fairly steady trade is being done in this line and prices are unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.

WARE—The movement is fairly good in

enameled ware, and in tinware a good trade is still being done. During the week there have been several telegraphic orders for sap buckets.

GREEN WIRE CLOTH—There is a good demand for green wire cloth, at \$1.20 net per 100 square feet. It is significant that jobbers here are selling at a lower price than those in the United States are, the jobbing price in Chicago being \$1.50 per 100 square feet.

POULTRY NETTING—This is going out well at the discount of 50 and 5 per cent.

EAVETROUGHS—April shipments have started, and, as a good many orders were booked, quite a lot is being forwarded. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

OIL AND GAS STOVES—There has been more inquiry during the week for oil and gas stoves. A good many gas stoves have been sent out to city customers during the past week.

METALS.

There has been no material change in local quotations during the week. Tin still rules firm in the outside markets. Pig lead is rather uncertain. Spelter rules firm, and the same may be said of antimony.

PIG IRON—The pig iron market continues decidedly strong. Local purchasers are still receiving shipments purchased some time ago. Little or no new business seems to be doing.

BAR IRON—The market is steady and trade is fairly good at \$1.70 from stock and \$1.60 to \$1.65 from factory.

BLACK SHEETS—Trade is fair, but there is no particular feature to note. Twenty-eight gauge is still quoted at \$2.85 per 100 lb.

GALVANIZED IRON—There is a good demand, both from stock and on import account. The demand at the moment seems chiefly for roofing and cornice purposes. The price of "Queen's Head" brand has been advanced another 25c., 28 gauge now being quoted at \$4.90 per 100 lb.; 28 gauge American is still quoted at \$4.50 per 100 lb., and "Gordon Crown" at the same price. Less than case lots are 25c. per 100 lb. dearer.

COPPER—Both ingot and sheet copper is quiet and prices are unchanged. We quote: Ingot at 18¾ up to 19¼c. per lb., and sheet copper at 23 to 23½c. per lb.

PIG TIN—There is very little business being done, but the outside markets continue to advance. London cables are particularly bullish. We quote: Lamb and Flag at 28c., and Straits at 27½c.

TIN PLATES—A fair business is being done with a rather increased demand for coke plates.

CANADA PLATES—Trade is still quiet, but

orders for import continue to be freely booked. All dull is quoted at \$2.50 per 100 lb.; half-polished, \$2.60, and all bright, \$3.10 per 100 lb.

PIG LEAD—The price of pig lead in the outside markets is somewhat uncertain at the moment, but locally there is no change, and only a moderate business is being done. We still quote 4½c. per lb.

LEAD PIPE—Trade is fair and prices unchanged. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

IRON PIPE—Business continues good and the market is decidedly strong, particularly in view of the report that the combination among the manufacturers in the United States has been completed. If the completion of this combination is true a sharp advance in prices may be looked for.

We quote as follows: Wrought pipe—¼, ⅜ and ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch, \$4.50; 1¼ inch, \$6; 1½ inch, \$7.40; 2 inch, \$9.90; larger sizes 70 per cent. discount. Galvanized pipe: ¼, ⅜ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—A good business is being done on these, shipments being quite brisk. Prices are firm and unchanged. We quote as follows: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

TINNED IRON—There is still a good demand for this line. We quote: 30 x 72, up to 24 gauge, at 6¼ to 6¾c.

COIL CHAIN—Prices are firm, but there is no further change in prices. We quote: ¼ in., \$6.50; 5-16 in., \$4; ¾ in., \$3.60; 7-16 in., \$3.40; ½ in., \$2.35; ⅝ in., \$3.15; ¾ in., \$3.05.

SHEET ZINC—There is not a great deal being done, and we quote 8c. for lots, and 8¼c. for part casks.

SPELTER—The market continues firm as to price, and a fairly good trade has been done in the past week. We quote 7¼ to 7½c. per lb.

SOLDER—Trade in this line is also good, and prices are firm. We quote: Half and half, 16¼ to 17¼c.; refined, 16¼ to 16½c.; wiping, 15¼ to 16c. per lb.

ANTIMONY—A firm market is still to be noted for this line, but locally trade is dull at 11 to 11½c. per lb.

PAINTS AND OILS.

Business is reported active in all departments, being aided by the improved weather conditions. With continued good weather, outdoor painting and varnishing will soon become active. Meantime spring stocks have been very generally distributed, and sorting orders came in well. Linseed oil is firm, though jobbers have not yet

put up their prices. Whiting is decidedly scarce, and, though there is no change in figures, the feeling is stiffer. There is no United States castor oil offering. East India oil is somewhat easier, a decline of ½c. being noted. A decline of 50c. per cwt. is noted for powdered pumice stone in barrel lots. The price for lesser quantities is not altered. Turpentine stocks, which were very short, have been replenished, and, as prices are expected to be materially reduced when the new crop comes in, the feeling here is weak. Prices are not changed this week, however. The regular quarterly meeting of the manufacturers was held in Montreal on Tuesday, when it was decided that no change would be made in prices until the special meeting to be held in the middle of May. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; 55c. per 100 lb. in 5-barrel lots. Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

NOW READY

"VICTOR" BICYCLE LAMP



Cheapest and Best. Write for prices to
WALTER GROSE, Montreal.

DO YOU KNOW

..... that you can now get any style of a zinc or copper ornament made in Canada?

You did not? Why, of course you can. During the past winter we have installed a complete plant for the production of all such goods, from an Egg and Dart Moulding to the most elaborate piece of Statuary.

Write us, stating your requirements, and we will name you prices that will secure your order, and will guarantee to ship you goods that ARE first class, or no charge.



Capital.

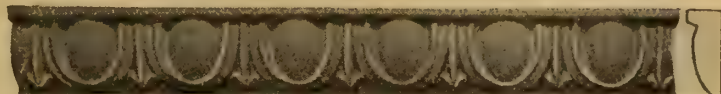


10-inch Egg and Dart Moulding.



8-inch Egg and Dart Moulding.

Keeping
Everlastingly
At it
Brings
Success.

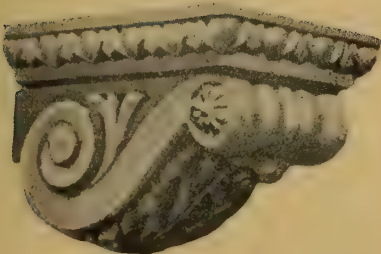


6-inch Egg and Dart Moulding.



4-inch Egg and Dart Moulding.

ALSO. ALL OTHER SIZES.



Bracket.

PROGRESS--that's the word.

Another indication of our progress is a very handsome 220-page Catalogue that we have just issued—issued for use of the Trade only. We will be pleased to send you one on request.

THE PEDLAR METAL ROOFING Co.

Head Office and Works,

Branch: 22 Victoria Square, Montreal, Que.

OSHAWA, CANADA

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 67c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

A good demand is steadily reducing supplies, stocks of the small sizes, especially second break, being unusually scarce. There is no change in prices. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

The offerings of all materials are increasing. Scrap brasses and rubber are coming in so freely that a decline of 1c. has been noted. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 42½c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2¾c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

Red clover is offering freely at \$3 to \$3.50, on board at outside points. Alsike is dull at \$2.50 to \$4. From 15 to 25c. more than these prices is paid for extra choice lots.

COAL.

As the demand has generally quieted down, much less difficulty has been experienced in filling order for the smaller sizes. Prices are unaltered. We quote anthracite at Buffalo and bridges as follows: Nut, \$4.75 per gross ton, or \$4.24 per net ton; egg and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

PETROLEUM.

A good business is reported. Prices are unchanged. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

H. S. Howland, Sons & Co. are in receipt of a shipment of Burgon & Wilkin-

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETTE**," suitable for Advertising Tablets, Signs, Facias, Direct on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

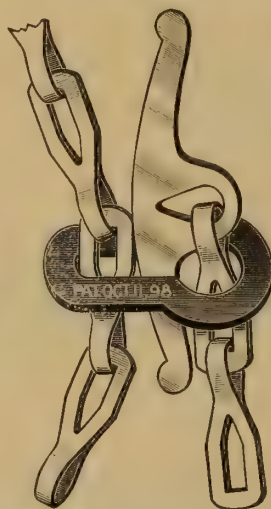
Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899.)



which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.

Ring easily ADJUSTED until Toggle is in place, then absolutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.

son's garden border and lawn shears; also a quantity of sheep shears made by the same firm.

Turpentine is 3c. lower and linseed oil 1c. higher.

Pumice stone in barrel lots is 50c. per cwt. cheaper.

The plane manufacturers have advanced their prices about 20 per cent.

Rope is ½c. per lb. dearer, the base price of sisal being 10c. and of manila 10½c. per lb.

The Canadian manufacturers of cast iron hardware have advanced their prices 10 to 33½ per cent.

A second shipment of Kent's "Triumph" corn planter has been received this week by H. S. Howland, Sons & Co.

M. & L. Samuel, Benjamin & Co., report that the demand for "Crown" brand galvanized iron is exceptionally good.

The agency of the "Micmac" hockey stick, formerly held by the Griffith Corporation, has been secured by H. S. How-

land, Sons & Co., who will handle the whole of the maker's output. The Messrs. Howland have already booked orders for half the total output. The "Micmac" hockey stick is made with the natural turn of the wood.

The tack manufacturers have advanced their prices, but the new discounts had not been issued at the time of going to press.

A. D. McArthur, representing The J. C. McLaren Belting Co., Montreal, has removed from 69 Bay street to 50 Colborne street, Toronto.

PERSONAL MENTION.

E. H. Wands, Hamilton, was in Toronto on business this week.

A. E. Bottum, of Bobcaygeon, was in Toronto on the 1st inst.

Mr. John D. Purdy, representing James Pender & Co., Limited, St. John, N.B., has been spending a few days in Toronto during the past week.



76,800 Daily Production.
5 Factories.
5 Brands.

For Sale all over the world.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

GRIFFIN AND SHIELD BRAND



This Mark is a Guarantee
of Quality.

Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

of Montreal

MANUFACTURERS

HALL'S PATENT

Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our

Mixed Paints Varnishes
Floor Paints Colors in Oil
etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

MONTREAL.

WOOD SPLIT PULLEY HISTORY.

THE wood split pulley is an established factor in manufacturing enterprises now, and needs no argument to prove its status. As now known, it is one of those things which occasionally appear upon the industrial stage; entering like apparitions, yet proving to be so substantial and all pervading that it shortly becomes difficult to comprehend that only yesterday, as it were, it was non-existent—even less than a shadow. When Pepper's ghost was first exhibited it was a mystery unfathomable to the most learned. Faraday could not even suggest a method for its production, and when Prof. Pepper led him upon the stage, and laid his hand upon the cold plate-glass reflector, he was lost in astonishment.

The wood split pulley, made by the Dodge Manufacturing Company of Toronto, seemed just as chimerical to the manufacturers of 1886. They knew it was merely a delusion—and now the same men are at a loss to know how or why they were deceived.

Nevertheless, the Dodge pulley was not a phantom, nor were those who befriended it deceived by a delusion.

Looking backward over its history—a history, by the way, not yet rounded and completed, it does require some mental effort directed in a logical method, to fairly comprehend what the reality consisted in, and those who to this day have not been able to see the stern facts hidden behind the veil of the past are not to be condemned as entirely stupid. They simply are not acquainted with the history and

MECHANICAL CONDITIONS

which preceded this invention which now appears so simple, that it is difficult to believe that it has not always existed.

In considering such a history, it is usually possible to select a few salient facts which serve as pivotal points for the whole fabric, and furnish keys to unlock all the mysteries of the situation.

There was not, in 1880, in all the world a dealer in pulleys. There was not a stock of pulleys anywhere, from which a purchaser could select the pulley he might want, and at that time it was not known to any man how it would be possible for anybody to deal in pulleys on the basis of a supply on hand ready for immediate delivery.

Dodge Manufacturing Company entered upon the manufacture of the Dodge pulley upon the basis of a supply on hand ready for immediate delivery, and within a very few years there were numerous dealers carrying stocks on the basis of a supply ready for immediate delivery, and at the end of thirteen years the Dodge Company had supplied such dealers and such stocks in every

city through Canada, with numerous agencies and stocks in foreign countries.

This historical fact, about which there is no dispute, is sufficient warrant for an inquiry as to how and why.

One says it was only shrewd business enterprise, but that is inadequate as an explanation, because business enterprise could not make possible what was impossible under existing conditions. Therefore, the conditions must have been changed. Between commercial shafting one inch to three inches in diameter, there are thirty-eight different diameters, hence, for a full stock, the dealer would have required thirty-eight pulleys, one of each size, to match any shaft on which a customer might wish to put a pulley. Pulleys which it would have been necessary to carry in stock at that time, may be said to vary from ten inches to forty-eight inches in diameter, varying by two inches, and from four inches to twenty-four inches in width of face, varying by half an inch. So then, 20 diameters to be carried 38×20 equals 760; 41 graduations in width of face 760×41 equals 31,160 pulleys from which the dealer could fill an order for one pulley, within the limits specified. No dealer would wish to confine his ability to fill orders for one pulley, out of 31,160. Hence that

NUMBER WOULD BE MULTIPLIED.

Nobody ever thought of carrying such a stock, but the Dodge company showed how, from a stock of 820 pulleys, less than 3 per cent. of 31,160, any order can be filled within the limits named. That is what nobody has before thought how to do. They did it, and revolutionized the pulley business throughout the world. How did they do it? They did it by adding to the pulley another member, to wit, an interchangeable centre, whereby any pulley can be immediately fitted to a shaft of any size. No pulley had ever before that been provided with a removable centre, intermediate the pulley and shaft, as a part of its structure and original intention. That was the new idea and invention that made it possible to make pulleys as articles of merchandise which could be kept in stock ready for immediate delivery and use.

A wooden pulley should be like the "Deacon's One Horse Shay,"

EQUALLY STRONG AT ALL POINTS,

and it would be difficult to point to any part and say this is less important than any other. Nevertheless, there is one point, which needs to be guarded more than any other, and which in all pulleys except the Dodge, is left without extra safeguard. That point is the point at the junction of the arms and the rim. The importance of this point will be evident when it is considered that a

pulley quite commonly makes 300 revolutions per minute and frequently twice or more times that number, and that direction of the belt strain on the ends of the arms is reversed twice each revolution.

There is no human structure or known material which will not yield to pressure, and the arms of a pulley, however it may be made or of what material, will spring a little under the pull of the belt, and this alternate pull of the belt, first one side and then the other, and alternating from 300 to 600 times per minute, will sooner or later have an effect to grind out any joint in which there is the minutest movement, and this deterioration will be hastened or retarded by the conditions of speed and actual belt pull.

It has been found that two pieces of wood united with the best glue, properly prepared, will be stronger in the joints than in the wood itself. This has been proved thousands of times in the Dodge factory, by breaking apart pieces of pulley rims, glued as the parts of the pulley are uniformly glued in that shop. Not once in 10,000 times does the separation occur in the space between the block, but the wood gives way on one side or the other of the glued joint. This statement has to bear on two points in the structure of the pulley. The rim is made with glue and without nails, and the joint between the arms and rim is made solid with glue and a wedge driven in by the side of the tenon to insure that solid contact of the glued surfaces which is essential to a properly glued joint. These points will be referred to again more in detail.

THE RIM.

The rim is composed of layers of wood suitably matched at the ends of the segments and secured together by glue. No nails are used in the rim or about the pulley, because the glue joint alone, properly made, secures all the strength there is in the wood, and nails actually weaken the wood without imparting additional strength elsewhere. The effect of changes of temperature and moisture on nailed structures may be seen on the weather boarding of any wooden house, which has been standing exposed to the sun a few years. The nails will appear partly drawn out, and this is a matter of common observation. Nails are a source of weakness, and their use was abandoned by Dodge Manufacturing Company several years ago.

After the rim (minus the edge segments) has been formed as described, it is chucked on a lathe and the inner surface is turned out smooth and true, and is then sawed in two transversely, on an irregular curved line to form interlocking portions, and the mortise notches are cut to receive the ends of the spoke arms.



A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their local mills and factories. Special discounts to the trade. Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.

THE ARMS.

The spoke arms are made from ash or maple planks, those woods being preferred on account of strength. The arm stock having been cut to proper dimensions, the hub block is glued on and the end wedge-shaped tenon is cut.

The two arms required for one pulley are then secured together with dogs and simultaneously sawed to shape on the edges. The rim and arms having thus been prepared they are united, and the rim joint made solid and secure with glue and wedges. There is always a slight vacancy between the end of the arm and the rim, because it is practically impossible to fit the arm tenon so that it will exactly fill its mortise. This space is filled with melted sulphur which has the property of solidifying without shrinking, and thus the rim receives solid support over the end of the arm.

When the arms have been put in place, the hub blocks will be about half an inch apart, and it is then necessary to bolt the two halves together; pieces of wood about half an inch in thickness are placed between

the hub blocks to prevent all springing of the pulley spoke arms under strain.

The arms having been inserted, the two halves are then bolted together with pieces of wood between the opposing faces of the hub and rim ends. The pulley is then again chucked in a lathe and the centre hole is turned out. The pieces of wood inserted serving to keep the halves of the pulley slightly apart, and affording the tool solid wood in which to work after being centre-turned to a standard diameter, so that it is adapted to any one of the standard sized interchangeable centres or bushings. The edge rings are then glued on to complete rim.

These edge rings are then cut with a straight saw in line with the previous cut, so that the rim is again entirely divided and separable into two parts. The pulley is ready for the final finish by turning its face and edges.

The packing strips are therefore removed and the pulley is placed on a mandril which may exactly fit the centre-hole or is made to fit the same by means of the proper one of

the interchangeable centres, interposed between said mandril and pulley. The mandril, or mandril and bushes, being exactly the diameter of the centre opening, the pulley halves will be slightly separated at hub and rim before the clamping bolts begin to act, and said slight separation at the rim will be closed by the action of the clamping bolts.

Having been securely clamped to the mandril which may be a part of the lathe, if desired, the pulley is finished by turning its face and edges and is then balanced.

All the pulleys above 20 inches in diameter are provided with stay bolts running through the arms near to the rim and back into the rim where they are securely anchored by malleable iron anchor nuts.

Pulleys of large size or designed for extra heavy duty are strengthened by stub arms.

The monetary value of this invention to the manufacturers of the world, and through them to the consumers of manufactured products, is simply beyond computation, but may be dimly understood when it is considered that before this invention every

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

pulley was made to order, which meant a delay anywhere from one day to a week or more, and this delay frequently meant the shutting down of a factory, or some part of it, for that length of time. In consequence of this invention, any ordinary demand for a new pulley can be supplied at once from the stock of some neighboring dealer, and there is only the delay of an hour or two instead of a day or more.

But the delay in getting a pulley was only a part. Taking down a section of shafting, stripping the pulleys off, putting on the new one and replacing the old ones, frequently required more time than was occupied in getting the new pulley. All of this is saved by this invention, since a Dodge pulley may be put in place in a few minutes without removing the shaft from its hangers.

And a pulley of almost any size and capacity can be had from the Dodge company or any of its authorized agents at once from stock.

The genuine Dodge pulleys are all labelled with the company's registered trade mark as a safeguard against imitators and infringers.

The extensive works of Dodge Manufacturing Company of Toronto, Limited, are located at Toronto Junction, where the ample piling grounds and dry kilns in connection with a thoroughly equipped works and complete railway facilities enable the company to economically handle their large output. The business offices and city warehouses are at 74 York street, Toronto.

The company also have agencies and stocks at all the leading centres throughout the world.

THE COST OF TELEPHONES.

NEW YORK is wrestling with the telephone question. Legislation has been attempted to regulate the telephone charge, but the influences against this have been so great that the two bills which were recently introduced were defeated. The rate in New York at present is \$240 a year, and one of the bills purposed making the maximum amount \$125.

New York must be pretty deeply in the grasp of the telephone companies when the people are compelled to pay such a fabulous rate. In Chicago, the rate for business houses is \$85, and for private residences \$50, so it is evident that even Chicago is better able to regulate the telephone companies than even her sister city.

Judged by the rates obtaining even in Chicago, the business men of Toronto and Montreal and other Canadian cities are getting a moderately cheap service. But that is no guarantee, however, that the telephone companies are not reaping a good profit. At any rate, there are cities in the

United States which are getting their services a great deal cheaper than we are in this country.

In Kansas, for instance, business houses pay \$24 and private residences \$12, and there is no limit to the number of times which the telephone may be used. In spite of what seems so low a rate, the investment pays 25 per cent. to the owners. At one time, the Government at Washington had to pay \$75 per year for the telephone system used between the different Departments, the system being equal to that necessary for a population of 15,000 people. This being considered so high, a private system was put in, with the result that the annual expense of each telephone is \$10.25, and this includes all charges, such as interest, depreciation and labor. This would corroborate the experience already referred to in Kansas City, where a good profit is obtained by the owners of the system there. In certain parts of Europe, the telephone rates run from \$8.25 to \$15.50 per year.

It is possible that under some of the systems in vogue it is impossible for the companies to furnish a cheaper rate than they are now doing, but there are systems whereby the desired low rates can be secured, and the companies which are sticking to what may be out-of-date systems should be compelled to lower their rates, which, of course, would mean the compelling of them to put in more modern systems.

In Great Britain, the telephone system is to become the property of the Government,

and a credit of \$10,000,000 has been given the Post Office Department for its development.

PAINTS FOR SHEET ZINC.

The following recipes for paints for zinc sheets are recommended by The London Ironmonger :

A very durable weather-resisting paint for zinc sheets is made by mixing oxide of zinc with a fluid silicate, such as water glass and potash or soda, to which the required pigments are added. The proportion should be about three-quarters of a pound zinc white to every pound of silicate, with or without water. This zinc-silicate paint becomes insoluble in water in about 24 hours. It is equally useful for interior and outside work, but it should not be applied to greasy surfaces, nor to old coats of paint. New zinc, not being oxidized, should first be prepared by the application of a solution of 1 part of soda to 10 parts of water, and then be washed thoroughly with water only.

To obtain a white color only pure zinc white should be used, but an excellent imitation of stone may be prepared by first mixing the proper coloring substances with water to the consistency of a thick paste, and then adding this to the mixture of silicate and oxide of zinc. The mixed paint can be kept in a closed vessel for 24 to 48 hours, provided it is put in a cool place.

These paints should only be applied in warm weather, as they are best kept free from moisture for at least 24 hours.

RAMSAY'S PAINTS



are paints for the dealer and paints for the consumer. Paints for the dealer because he gets a pure paint, and none better made, which he can readily sell and make his profit. Paints for the consumer because he finds them finer ground, more durable and brighter than any other paints he ever tried. Ramsay's Pure Mixed Paints always give satisfaction.

RAMSAY'S LEAD

Unicorn Pure Lead is finely ground and carefully made from the best pigment and pure oil. Then, again, for outside work the big leader in the market to-day is RAMSAY'S EXTERIOR.

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Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employees or Friends.

All Spraying, Disinfecting, and Whitewashing can be done with **THE SPRAMOTOR.**



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898.
 Spramotor Company,
 London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus,

had practically none. Yours truly,

W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsthy, on April 2nd and 3rd, 1898, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded **FIRST PLACE.**

H. L. HUTT, } Judges.
 M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.
 Mention this paper.

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope

Star Brand Cotton Clothes Lines

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For Sale by all Wholesale Dealers

Enamelled Tins

The Best Oils and the prettiest tins on the market.

No paper labels.

Unlike Petroleum GOOLD'S Lamp Oil does not blow or jolt out.



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CYCLE OILS

are recommended by

Field-Marshal Lord Roberts,
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AGENCY.

We are open to give the sole buying agency for Canada to an influential firm.

GOOLD'S, LIMITED

(17)

Liverpool, England.

Dunlop Tires

"They will stand the hardest kind of hard wear."

And cyclists think so much of them that a Dunlop-tired mount can be sold twice while any other kind of tires are being half sold.

Here's the Trade Mark that tells of their easy-ness.

TRADE MARK.



"The only tools you'll need."

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

A SPENARD, general merchant, St. Jean de Chaillons, Que., is offering 60c. on the dollar.

Louis Rainville, general merchant, South Casselman, Ont., has assigned.

Gilbert Toussaint, blacksmith, L'Islet, Que., is offering 10c. on the dollar.

H. Brissette & Fils, carriagemakers, Berthier Junction, Que., have assigned.

Henri Roberge, general merchant, St. Evariste Station, Que., is offering 40c. on the dollar.

E. A. Dool, general merchant, Easton's Corners, Ont., has assigned to James T. Tennant.

Charles Desmarteau has been appointed curator of Amedee Perrier, hardware dealer, Montreal.

Wesley Bingham, hardware dealer, etc., Lindsay, Ont., has assigned to Richard Tew, Toronto. The liabilities are placed at \$6,000, and the assets nominally at \$8,000.

PARTNERSHIPS FORMED AND DISSOLVED.

Vincelette & Robin, general merchants, Ely, Que., have dissolved.

Haselton & Longeway, blacksmiths, Stanstead, Que., have dissolved.

M. J. McLeod, general merchant, Lacombe, Man., has admitted A. Gilmour.

John Fincham, blacksmith, Lacombe, N.W.T., has admitted — Ramsay, under the style of Fincham & Ramsay.

Oliva J. Roberge and Victor Grenon have registered partnership under the style of Roberge & Grenon, blacksmiths, Ayer's Flats, Que.

Joseph O. Bouchard and A. Jas. Turcotte have registered partnership under the style of Bouchard & Turcotte, general merchants, Magog, Que.

Laplough & McNaughton, commission hardware dealers, Montreal, have renewed special partnership from April 1, 1899 to March 31, 1902.

Wm. H. Trenholme and George Hogg have registered partnership under the style of Trenholme & Hogg, manufacturers of tinware, Montreal.

Lewis Winestein and Macks Winestein have registered partnership under the style of L. Winestein & Son, general merchants, Drummondville, Que.

Dieudonne Archambault and Sifroid Bertrand have registered partnership under the style of Archambault & Bertrand, blacksmiths, St. Henri de Montreal.

Pariseau, Rollin & Co., dealers in paints, etc., Montreal, have dissolved, and Odilion

Vanier and Pierre O. Rollin have registered partnership under the old style.

SALES MADE AND PENDING.

Hay & Phillips, general merchants, Badjeros, Ont., advertise their business for sale.

Robert Armstrong, stove and tinware dealer, Millbrook, Ont., is offering to sell out.

The stock of the estate of Sadlier Bros., general merchants, Wiarton, Ont., has been sold.

M. Krees, tinware and stove dealer, Durham, Ont., is advertising his business for sale.

The stock, etc., of O.S.V. Ross, general merchant, Mission City, B.C., are to be advertised for sale.

The stock of B. M. Harlow, general merchant, Caledonia Corner, N.S., has been sold by the sheriff.

CHANGES.

G. W. Cann, general merchant, Fulton, Ont., has sold out to D. Gowland.

A. Gale, general merchant, Alma, Ont., has been succeeded by Reid Bros.

Kaake & Williams, hardware dealers, etc., Trail, B.C., are giving up business.

Stirritt & Co., general merchants, Petrolia, Ont., are giving up business in that place.

Thomas Walker, blacksmith, Bancroft, Ont., has been succeeded by Russell Brown.

Wm. R. Bell, blacksmith, Cromarty, Ont., has been succeeded by John McCullough.

F. Bedard, general merchant, St. Samuel de Gayhurst, Que., has retired from business.

W. Cosman & Son, dealers in tinware, Vancouver, B.C., are adding a stock of stoves.

Manuel & Ruttan, general merchants, Donald, B.C., are contemplating giving up business.

Campbell & Co., general merchants, Williamstown, Ont., have removed to Richmond, Que.

Carson & Shore, harness dealers, Maple Creek, N.W.T., have sold out to Douglas & Parsons.

Rose & McPherson, hardware dealers, etc., Maple, Ont., have been succeeded by J. A. Rose.

Wm. H. Fligg has registered as proprietor of The Fligg & Harris Co., bicycle dealers, etc., Montreal.

Joseph Lacomb has registered as proprietor of Lacomb, Anterne & Co., general merchants, Montreal.

Angus D. Gillis, carriagemaker, Sydney, N.S., has registered consent for his wife, Teresa Gillis, to do business in her own name.

DEATHS.

H. Guilbault, general merchant, Fannystelle, Man., is dead.

Samuel Burdick, blacksmith, Lakeside, Ont., is dead.

Norman McInnes, general merchant, Tiverton, Ont., is dead.

Gustave Faucher, carriagemaker, St. Marie (Beauce), Que., is dead.

John Inglis, of John Inglis & Sons, manufacturers of engines and boilers, Toronto, is dead.

CATALOGUES, BOOKLETS, ETC.**"QUICK MEAL" STOVES.**

The warm weather will bring the usual, and possibly an increased demand for oil and gasoline stoves. The Gurney Foundry Co., Limited, are again handling "Quick Meal" gasoline and blue flame oil cook stoves, and have for distribution the 1899 catalogue of these goods. In this catalogue all varieties of stoves and ranges, from a small single burner costing \$2.50 to a large range worth \$33, are illustrated and described.

E. T. WRIGHT & CO.

The tinsmith or hardware dealer who has not secured the 1899 catalogue issued by E. T. Wright & Co., Hamilton, should write for one, as it is one of the most complete that has been sent out this year. The lines manufactured by this firm include cold blast, hinge and lift lanterns, lamps, bird cages, pressed, pieced, and japanned tinware, copper and brass ware, milk and creamery can fixtures, hardware specialties, tinsmiths' supplies, tools, etc., patent pleated elbows, patent stove pipe, mousetraps, etc., the range of goods manufactured being so great that 340 pages are taken up in the illustrations and description of the stock.

NEW PAINT FACTORY.

A Vancouver paper says: "Still another of the many industries that help to keep Victoria in the foremost rank of the cities of the Pacific Northwest, is about to be established. Mr. W. J. Pendray, whose soap, vinegar, blacking and box factories take up the best part of a block on Humboldt street, has, in connection with Mr. W. T. Andrews, the late manager of the Victoria factory of The Canada Paint Co., organized The British America Paint Co., and will shortly commence the manufacture of paints and varnishes. It has not yet been decided whether additional buildings will be erected on Humboldt street, or a site selected further from the business portion of the city. Mr. W. H. Evans has been appointed manager of the Canada Paint Co., vice Mr. Andrews.

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you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
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crement Cut, and are made
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tainly know how.

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Vice-President and Gen'l Mgr.



HEATING AND PLUMBING

TORONTO BUILDING PERMITS.

BUILDING permits have been issued to J. B. Willmott, for a two-storey and attic residence at 98 College street to cost \$7,000; to John Thompson, for a two-storey brick residence at 36 and 38 Carlaw avenue, to cost \$2,000; to Geo. Weston, for a two-storey brick horse-barn on the southwest corner Phoebe and Soho streets, to cost \$2,500; to Thos. McIlwain, for a pair of two-storey and attic stores on the southeast corner of Spencer and King streets, to cost \$5,000; to the Toronto Railway Co., for a one-storey wooden car-shed near Yonge on Scollard, to cost \$4,000; to J. H. Dunlop, for a two-storey and attic brick residence at 644 Lansdowne avenue, to cost \$3,000.

PLUMBING AND HEATING NOTES.

Gilmour Bros. have started business as plumbers in Montreal.

Partnership has been registered by The Oriental Bath Co., Montreal.

Vincent King, jr., and Joseph King have registered as proprietors of Vincent King & Bros., plumbers, Montreal.

The plating shop of Blouin, Desforages & Latourelle, plumbers, etc., Montreal, has been damaged by fire; insured.

The Toronto Master Plumbers' Association held their banquet last night at McConkey's. A report will be published in the next issue of **HARDWARE AND METAL**.

IMPROVING THEIR SHOPS.

One result of the busy season last year and the expected busy season this year is that many of the larger plumbing firms have improved or are improving their shops.

Some time ago W. G. Ritchie moved his shop from 536 Yonge street to 106 Victoria street, which is nearer to the business centre of the city.

Purdy, Mansell & Co. have carpenters busy rearranging their offices to make room for displaying plumbing fixtures, etc.

Keith & Fitzsimmons have taken out a permit to put a new front on their store on King street.

The John Ritchie Plumbing and Heating Co., Limited, some weeks ago took in the store next to their shop to use as a display room. This has been fitted-up with plumbing, heating and lighting fixtures.

PLUMBING AND HEATING CONTRACTS.

The Bennett & Wright Co., Limited, Toronto, have the contract for plumbing, gasfitting, heating and electric wiring in a

house for James Clemes, Jamieson avenue, Parkdale, and for putting in an automatic sprinkler system in the new Telegram building.

Mashinter & Co., Toronto, have the contract for plumbing and heating a residence for James Jermyn, on Scarth road Rosedale.

THE PLUMBER'S APPRENTICE.

AT a time when master plumbers all over the country are debating between themselves or with the journeymen plumbers' unions how best to adjust the apprenticeship question, it is interesting to look back to the time when the plumber was first placed under subjection to law in England in the fourteenth century, if only to see how the subject was managed at that time.

A writer in *The Plumber and Decorator* (London) throws some light on the practices which then prevailed, both as regards the plumbers in their dealings with each other, with the public, and with the apprentices, which is interesting. One of the rules to which they were subject is thus expressed:

"Ye shall take none apprentice for any less term than for seven years, without fraud or deceit; and within the first year ye shall cause him to be enrolled, or else pay such fine as shall reasonably be imposed upon you for omitting the same; and after his term's end, within convenient time (being required) ye shall make him free of this city, if he have well and truly served you."

The apprentices, on the other hand, were bound by the following instructions issued by the "Company of Plumbers":

"You shall constantly and devoutly on your Knees every Day serve God, Morning and Evening, and make Conscience in the due Hearing of the Word preached, and endeavour the right Practice thereof in your

Life and Conversation. You shall do diligent and faithful Service to your Master, for the Time of your Apprenticeship, and deal truly in what you shall be trusted with. You shall often read over the Covenants of your Indenture, and see and endeavour with yourself to perform the same to the utmost of your Power. You shall avoid all evil Company on all occasions, which may tend to draw you to the same, and make speedy Return when you shall be sent of your Master's or Mistress's Errands: You shall avoid idleness, and be ever employed either for God's Service or in your Master's Business: You shall be of fair, gentle, and lowly Speech and Behaviour to all Men, and especially to your Governors, and to the Wardens and others of this Company. And according to your Carriage, expect your Reward for Good or Ill, from God and your Friends."

From all that can be learned from our contemporary, there does not appear to have been any direct injunction against anyone entering the trade without serving an apprenticeship, but the rule is stringent that no person should be employed unless he was "free of the city," and he could not obtain the freedom unless he "knew how well and lawfully to work and to do his work."

Our contemporary thus summarizes the whole matter:

(a) In olden times everyone who had anything to do with the trade of plumbing was a practical man.

(b) The trade was organized and governed by members who were elected by and from the body of the craft who drew up ordinances for general guidance (these elected members were known as the Court of the Plumbers' Company, who, among themselves, chose one to be the presiding master for one year).

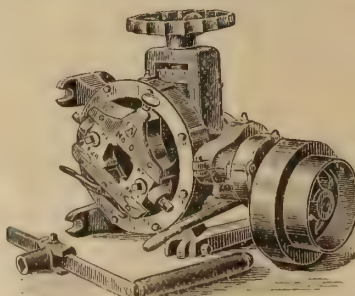
(c) An apprenticeship of seven years had to be served with a master plumber who himself had passed through a similar course of training.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office.
139 Centre Street

Bridgeport, Conn.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

Impure water a prolific source of disease.

The Superlative

Water Filter

Now
is
the
time
to
use
a
filter.

gives you a practically new Filter at all times.
Not a cheap article—but GOOD.

The **Jas. Morrison Brass Mfg. Co.**
93 Adelaide W., Toronto. Limited

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,
49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

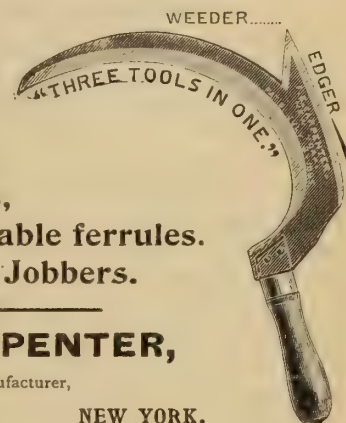
CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place, NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, **TORONTO**

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

LUXFER PRISMS

**CARRY DAYLIGHT
with wonderful success.**

All progressive business men recognize their value.

"The most useful, and the most profitable
improvement you can put into commercial
premises."



EATON'S—WITH PRISMS



EATON'S—WITHOUT PRISMS

Send for Descriptive Booklet to . . .

The Luxfer Prism Company

Limited

58 Yonge Street

Toronto.

Installation at premises of
The T. Eaton Co., Limited } A STORY WITHOUT WORDS.

SELL GOOD TINWARE.

IN this progressive age the average tin-smith, plumber and hardwareman sells but a small percentage of the tin and sheet metal ware sold in his community, writes "Quality," in The Metal Worker. The time was when he had a monopoly of this line and found it a profitable branch of his business. But the aggressiveness of the department stores and the premium-giving baking powder manufacturers, combined with the consumer's overwhelming desire to "get something for nothing," has reduced his sales on these goods to such an extent that in many communities he makes little or no attempt to push the sale of them. It has been pretty clearly demonstrated that there is no use of trying to scare the manufacturers into selling their wares to the legitimate hardwaremen only, as they prefer, for various reasons, to sell to the department stores; and it cannot be denied that the reasons they give are good ones from their standpoint.

But the tinner or hardware dealer who makes up his mind to push the sale of tinware will find that he can still do considerable trade in this line, if pushed in the right way. Sheet-metal articles are generally sold by department stores as "leaders," or, more properly speaking, "enticers"; and the kind they sell is better fitted for that purpose that it is for use. There may be some houses that handle a fair quality of goods of this kind, but the writer has never seen an article of tinware offered for sale by one of these combination stores without a feeling of admiration for the genius of the one who invented the method whereby a metal plate can be rolled so thin, and the only remarkable thing about the coating on such ware is its extreme attenuation.

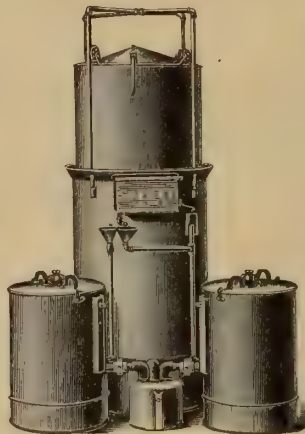
While there are a great many people who always buy the lowest priced and, consequently, the poorest article they can find, there are many others who have become disgusted with the fleeting existence of a great deal of the tinware now being sold. And it is with such as these that the plumber or tinner can hope to increase his sales. By keeping in stock a line of first-class ware, by advertising the fact, and taking the time and trouble to show the difference between a well-made and heavily-coated article and one that is made to sell and not to use, the dealer will find that he can add considerably to his sales, besides gaining a reputation for keeping first-class goods. This will be a further advantage to him, for people will take it for granted that if his tinware is above the average in quality other goods sold by him must be of the same grade.

John H. Warne, general merchant, Acadie Valley, N.S., is dead.

We Want Your Axe Order FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only **pure gas**. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

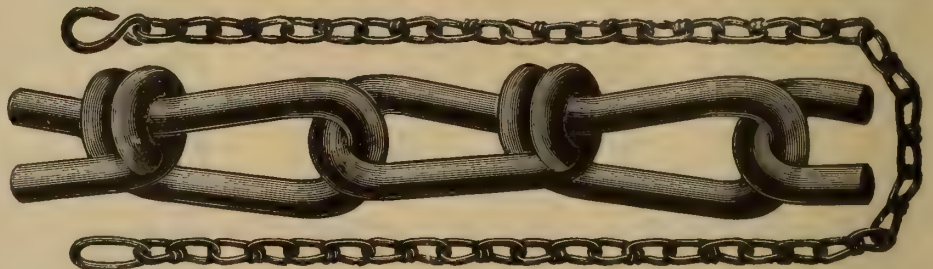
Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS.

Send for Booklet.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.



**IRON AND
BRASS**

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

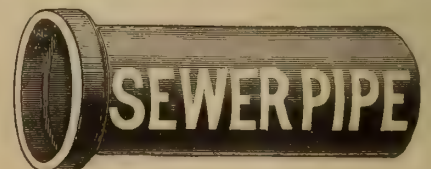
THE R. McDUGALL CO., Limited

Manufacturers,

Galt, Canada.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Galvanized Sheets, Imitation Russia Sheets, Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

. . . TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Doubletrees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction. All stock air-dried, not kiln-dried. If you are going to be in it, place your order with

GARDNER BROS. & CO.**ARE YOU A BUYER of**

**Hardware, Metals,
Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
25 Front St. West, TORONTO.
109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"**

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



Factory at
Germantown Junction.

B.B. WROUGHT ORNAMENTAL PIPE STRAPS**Made also in Malleable Iron.**

These are a distinct advance over the old plain straps, being much stronger and neater. Patented in U. S. A.

Write for Catalogue and Prices.

BERGER BROS. CO.

Tinnners' Hardware and Roofers' Supplies,

PHILADELPHIA, PA. Office and Stores,
231 and 237 Arch Street.

STEVENS RIFLES

Send for our complete catalogue.

THE FAVORITE

is made in three calibres
22, 25 and 32 Rim Fire

and is the best low-priced rifle made. Highest quality of work.
Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
No. 18, Target Sights— " 11.50
No. 19, Lyman Sights— " 12.00

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
MASS., U.S.A.



**Church's Cold Water
Alabastine**

can be easily applied to the walls and ceilings of your room. And in the time to come, if you wish to change the tint you can apply it right over the old tint—coat over coat. It is absolutely sanitary, it will not rub off or scale from any hard surface. It cannot decay on the wall. (Never sold in bulk.) The best painters use it, but you can apply it yourself if necessary—a little care, cold water and an ordinary brush will do it. Ask any paint dealer to show you card of 16 beautiful tints (and white). It

Won't Decay on Your Walls

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ont.**HUTCHISON, SHURLY & DERRETT**

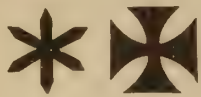
**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared to furnish the best made goods in the market at closest prices and make prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.**

CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS.

April 7, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 28
Straits 0 27½

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 00
I.X., 6 25
I.X.X., 7 50
J. R. & Co.—
I.C. 4 75 5 00
I.X. 6 00 6 25
I.X.X. 7 25 7 50

Famous—
I.C. 5 00
I.X. 6 25
I.X.X. 7 50
Raven & Vulture Grades—
I.C., usual sizes 4 00
I.X., 4 75
I.X.X., 5 50
I.X.X.X., 6 25
D.C., 12½x17 3 50
D.X., 4 25
D.X.X., 6 25

NOTE.—Other brands might be shaded by 25c per box.
Coke Plates—Bright.
Bessemer Steel—
I.C., usual sizes 3 15
I.C., special sizes, base 3 25
20x28 6 75
Charcoal Plates—Terne.
Dean or J. G. Grade—
I.C., 20x28, 112 sheets 6 25
I.X., Terne Tin 7 75
I.C., Orion 6 25
I.X., Orion 7 75
Charcoal Tin Boiler Plates.
Cookley Grade—
X.X., 14x56, 50 sheet bxs }
" 14x60 " } 0 05½ 0 06
" 14x65, " }
Tinned Sheets.
72x30 up to 24 gauge 0 05 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07½ 0 07½

Iron and Steel.

Common Bar, per 100 lbs Base Price
" from factory 1 70
Refined " 1 65
Horse Shoe 1 70 1 75
Hoop steel, 1½ to 3 in. base,
extr. for smaller sizes 2 25
Swedish " 4 00 4 25
Sleigh Shoe Steel " base 2 00
Tire Steel 2 00
Machinery 2 00 2 25
Cast Steel, per lb 0 12
Thos. Frich & Sons' Cast Steel
Russian Sheet, per lb 0 10½
Tank Plates, 1½ and thicker. 2 00
Boiler Rivets 4 50 5 00

Boiler Tubes.

1½-inch 0 06½
2 " 0 07½
2½ " 0 09½
3 " 0 11
Steel Boiler Plate.
3-16 inch 2 00
" 1 90

¾ inch and thicker..... 1 75

Black Sheets.

13 gauge 2 40
20 " 2 50
22 to 24 " 2 55
26 " 2 65
28 " 2 85

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,
\$7.85; ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch,
\$1.50; 1¼ inch, \$6.00; 1½ inch, \$7.40; 2 inch,
\$9.90. Larger, discount 7½ per cent.
Galvanized, ¼ to ¾ inch, \$5; ½ inch,
\$5.60; ¾ inch, \$6.10; 1 inch, \$8.75; 1¼ inch,
\$12.00; 1½ inch, \$14.75; 2 inch, \$19.75. Cast
soil, 2, 3, 4 and 5 inch, 60, 10 and 5 p.c.

Galvanized Iron.

G.C. Comet. Amer. Head. Queens
16 gauge 4 00 3 25 3 75 4 00
18 to 24 gauge 4 25 3 50 4 15 4 50
26 " 4 50 3 75 4 50 4 75
Less than case lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs
" ¼ " " 6 50
" 5-16 " " 4 00
" ¾ " " 3 60
" 7-16 " " 3 40
" ½ " " 2 35
" ¾ " " 3 15
" 1 " " 3 05
Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per
doz. yards 0 13 0 50
Jack chain, double, per doz.
yards 0 15
Jack chain, brass, single, per
doz. yards 20 10

Copper.

Ingot.
English B. S., ton lots 0 18½ 0 19½
Lake Superior
Bolt or Bar.
Cut lengths, round, ½ to ¾ in.
round and square
1 to 2 inches 0 23 0 24
Sheet.
Untinned, 14 oz., and light, 16
oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16
oz., irregular sizes 0 23 0 23½
NOTE.—Extra for tinning, 2 cents per
pound, and tinning and half planishing 3
cents per pound.
Tinned copper sheets 0 26
Planished 0 32
Braziers. (In sheets.)
4x6 ft. 25 to 30 lbs. ea., per lb. 0 25
" 35 to 45 " 0 24
" 50-lb. and above, " 0 23
Boiler and T. K. Pitts.
Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½
p.c. off list.
Sheets, hard-rolled, 2x4 0 20 0 22½
Tubing, base, per lb 0 21 0 22

Zinc Spelter.

Foreign, per lb 0 07½ 0 07½
Domestic " 0 07½ 0 07½

Zinc Sheet.

cwt. casks 0 08
Part casks 0 08½
Lead.
Imported Pig, per lb 0 04½
Domestic, per lb 0 05½
Bar, 1 lb. 0 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05½
Sheets, 3 to 6 lbs., per sq. ft.,
by roll 0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra
Pipe, by the roll, usual weights per yard, lists
at 7 cents per lb. and 17½ per cent. discount.
NOTE.—Cut lengths, net price, waste pipe
8-ft. lengths, lists at 7½ cents.

Shot.

Net list, no discount.
Solder.
Per lb. Per lb.
Bar half-and-half 0 16½ 0 17½
Refined 0 16½ 0 16½
Wiping 0 15½ 0 16
NOTE.—Prices of this graded according to
quantity. The prices of other qualities or
solder in the market indicated by private
brands vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½

White Lead.

Pure, Assoc. guarantee, ground in oil,
25 lb. irons 6 00
No. 1 do 5 62
No. 2 do 5 25
No. 3 do 4 87½
No. 4 do 4 40
Robertson's Chemically Pure 6 00
Munro's Select Flake White 6 25
Elephant and Decorators' Pure 6 00
Brandram's B. B. Genuine 8 00
James genuine, No. 1 7 20
" No. 1 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04½
Pure, kegs 0 04½
No. 1, casks 0 04½
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70 0 90
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00 1 10
Robertson's Pure 1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 05
Chrome Yellow 0 11
Golden Ochre 0 05
French 0 05
Marine Black 0 09
" Green 0 09
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. F. C.) bbls. per
cwt 1 35 1 40
Yellow Ochre (J. F. L. S.) bbls.
per cwt 2 75
Yellow Ochre (Royal), per
cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80 1 90
English Oxides, per cwt. 3 00 3 25
American Oxides, per cwt. 1 75 1 90
Canadian Oxides, per cwt. 1 75 1 90

Burnt Sienna, pure, per lb. 0 10
" Umber, " 0 10
do aw 0 09
rop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 08½
Ultra marine Blue in 28-lb.
boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1 lb. packages 0 15
½ lb. 0 16½
1-lb. tins 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 06
100-lb. lots, do. per lb. 0 07

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.
extra Hamilton, London Guelph. For quan-
tities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.) per gal
Carriage, No. 1 0 90
Extra do. 1 03
Body Varnish 4 00
Furniture Varnish 0 45
Extra do. 0 80
Demar Varnish 1 40
Hard Oil Finish 1 10
Orange Shellac Varnish 1 90
White Shellac 2 00
Rubbing Varnish 2 40
Brown Japan 0 70
Elastic Oak 0 90

Linseed Oil.

Raw, per gal. net 0 51
Boiled, per gal. net 0 54
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 67
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10½
Small lots 0 11½

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20
Neatsfoot 90

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medal 0 12 0 12½
Cabinet, sheet 0 11 0 12
White, extra 0 16 0 18
Gelatine 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
R. B. Caps, Dom., 50 and 5 per cent.
Rim Fire Pistol, dis. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p.c. Amer.

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, American list. B. B. Caps, discount 45 per cent.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Riva and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent.
Primers, Dom., 30 per cent.
Wads.

Best thick white felt wadding, in 1/2-lb bags, 1 00
Best thick brown or grey felt wads, in 1/2 lb. bags, 0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges, 0 99
Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
Thin card wads in boxes of 1,000 each, 8 gauge, 0 25
Chemically prepared black edge grey cloth wads, in boxes of 250 each— Per M
11 and smaller gauge, 0 60
9 and 10 gauges, 0 70
7 and 8 gauges, 0 90
5 and 6 gauges, 1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
11 and smaller gauge, 1 15
9 and 10 gauges, 1 40
7 and 8 gauges, 1 65
5 and 6 gauges, 1 90

Discount, 33 1/2 per cent.
Per lb. 0 10 0 12 1/2
Anvil and Vice combined, 4 50
Wilkinson & Co.'s Anvils, lb., 0 09 1/2
Wilkinson & Co.'s Vices, lb., 0 09 1/2

Augers.
Gilmour's, discount 50 and 10 p.c. off revised list.

Hollow Stearn's, per dozen, 13 00 20 00
Adjustable Stearn's, each, 4 50 6 50
Post-hole, Vaughan's, each, 60 90

AXES.
Splitting Axes, 5 25 5 50
Chopping Axes, 6 00 12 00
Double List, " 11 00 18 00
Ranch Axes, 40 and 15 p.c.
Broad Axes, 33 1/2 per cent.

Bath Tubs.
Zinc, discount, 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list.
Steel clad, 20 per cent. discount off revised list.
Boxing extra

Anti-Friction Metal.
"Tandem" A, per lb., 0 19
" " B, " 0 16
" " C, " 0 10 1/2
" " Monarch, 1, " 0 21
" " 2, " 0 15
" " 3, " 0 10
" " Canadian, " 0 08 1/2
" " Niagara Anti-Friction Metal, per lb., 0 25
" " No Name Metal, " 0 15
" " Mystic Metal, " 0 11
" " F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.
Door.
Gongs Sargent's, 5 50 8 00
" Peterboro', discount 50 per cent.
Cow.
American make, discount 66 2/3 per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each, 1 25 3 00

House.
American, per lb., 0 35 0 40

Bellows.
Hand, per doz., 3 35 4 75
Moulders, per doz., 7 50 10 00
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47 1/2 to 50 per cent.
Expansive
Clark's 40 per cent.

Gimlet.
Clark's, per doz., 0 65 0 90
Diamond, Shell, per doz., 1 00 1 50
Nail and Spike, per gross, 2 25 5 20

Blind Rollers.
Annex, per doz., 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 90

Blind and Bed Staples.
All sizes, per lb., 7 1/2 0 12

Bolts.
Carriage, 5-16 and under, dis., 60 and 5 p.c.
" 3/4 and larger, dis., 62 1/2 per cent.
Tire, dis., 70 and 5 per cent.
Stove dis., 70 per cent.
Sleighs, 81 per cent.
Machine, all sizes, 60 and 15 per cent.
Blank, 6 1/2 and 15 per cent.
Coach Screws, dis. 75 and 10 p.c.
Plough bolts, 60 p.c.
Bolt ends 8 1/2 and 15 per cent.
Nuts, square, 4 1/2 c.
" Hexagon 5c
Tapping nuts, 70 per cent.

Boot Calks.
Small and medium, per M., 4 50
Small heel, per M., 4 25

Broilers.
Light, dis., 65 to 67 1/2 per cent.
Reversible, dis., 65 to 67 1/2 per cent.
Vegetable, per doz., dis. 37 1/2 per cent.
Henis, No. 8, " 6 00
Henis, No. 9, " 7 00
Queen City, " 7 50 0 00

Butchers' Cleavers.
German, per doz., 6 00 11 00
American, per doz., 12 00 20 00

Building Paper, Etc.
Plain building, per roll, 0 30
Tarred lining, per roll, 0 40
Tarred roofing, per 100 lb., 1 45
Coal Tar, per barrel, 3 75
Pitch, per 100-lb., 0 60

Roll Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in.

Butts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.

Cast Iron.
Loose Pin, dis. 60 to 60 and 10 per cent.

Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Gen. Bronzed, per pair, 0 40 0 65

Cards.
Horse per doz., 0 60 1 00

Carpet Sweepers.
Rissell, per doz., 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz., 29 00
Grand Rapids, " 24 0 33 00

Carpet Stretchers.
American, per doz., 1 00
Bullards, per doz., 6 50

Cartridges.
(See Ammunition.)

Castors.
Bed new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
Nos 31 and 32, per gross, 8 50 9 50

Cement.
Canadian Portland, 2 65 2 90
English, " 2 80 3 00
Belgium, " 2 50
Canadian hydraulic, 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per gross, 0 45 0 75
White lump, per cwt., 0 60 0 65
Red, " 0 05 0 06
Crayon, per gross, 0 14 0 18

Chisels.
Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warwick's, dis. 40 and 10 per cent.

Churns.
Delivered from stock in Ontario: No. 0, \$2.85
No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No. 4, \$4.35—No. 5, \$5.75. Delivered from stock, Montreal: No. 0, \$3.05—No. 1, \$3.25—No. 2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5, \$6.05.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain, 3 25
" embossed, 3 50
Connections, 1 10

Compasses, Dividers, Etc.
American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent from factory.

Dies.
Hart Mfg. Co. (pipe dies), (Amer. list), dis. 40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
Torrey's Rod, per doz., (15 p.c.), 2 00
Coil, per doz., 0 88 1 60
English per doz., 2 00 4 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz. net list.

DRILL BIT.
Morse, dis. 37 1/2 to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz., 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.
Black Diamond, 50 and 10 to 60 per cent.
Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27 1/2 per cent.
Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS.
Ice Cream.
White Mountain, 1 to 25 qt., 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67 1/2 per cent.

FRUIT PRESSES.
Henis', per doz., 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.
Window.
Box Price.

Size United Inches.	Star.	Per 50 ft.	Per 100 ft.	Per 100 f.	Double Diamond
Under 25	1 80	3 50	5 50		
26 to 40	1 95	3 80	6 10		
41 to 50		4 20	6 75		
51 to 60		4 50	8 00		
61 to 70		4 80	8 75		
71 to 80		5 20	9 75		
81 to 85		5 80	10 75		
86 to 90		6 80	13 00		
91 to 95			14 75		
96 to 100			16 75		
101 to 105			18 75		
106 to 110			22 75		

HALTERS.
Rope, 3/4 per gross, 8 25 8 50
" 1/2, " 9 25 9 50
" 1/4, " 11 00 11 25

Leather, 1 in., per doz., 3 87 1/2 4 60
" 1 1/4 in., " 5 15 5 25
Web, — per doz., 1 87 2 40

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27 1/2 per cent.

Tack.
Magnetic per doz., 1 10 20

Sledge.
Canadian, per lb., 0 07 1/2 8 1/2

Ball Pean.
English and Can., per lb., 0 22 25

HANDLES.
Axe, per doz., net, 1 50 2 00
Store door, per doz., 1 00 1 50
Chest, per doz. pairs, 0 40 2 50

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz., 1 00 25

Plane.
American per gross, 3 1

Hammer and Hatchet.
Canadian, 45 per cent.

Cross-Cut Saw.
Canadian, per pair, 0 13 1/2 0 20

HANGERS.
Door, 4 and 5 inch, per pair, 0 40 50
Lanes, 6 1/2 per cent.

HATCHETS.
Canadian, dis. 40 to 42 1/2 per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb., 0 05
" 5-in., " 0 01 1/2
" 6-in., " 0 04 1/2
" 8-in., " 0 01 1/2
" 10-in., " 0 04

crew hook and hinge—
6 to 12 in., per 100 lbs., 3 75
14 in. up, per 100 lbs., 3 00
Per gro. pair 8 50

Spring, 8 50
HOES.
Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
Planter, per doz., 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		
Wire.		
Hat and coat, discount 60 per cent.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent.		

HORSE NAILS

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
"F. B.", dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		F.O.B. Toronto.
Light, medium, and heavy.	3 25	
Snow shoes	3 50	
Steel Shoes.		
Light, all sizes.	3 45	
Extra light	4 60	
Toe weight (steel)	5 60	

If shipped from factory, Montreal, 10c. per keg less.

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, " "	6 00	9 00
Shutter, porcelain, F. & L. screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, " "	1 87	3 85
King, wood, " "	2 75	2 90
King, glass, " "	4 00	4 50
All glass, " "	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	2 00	2 20
Cabinet.		
Eagle, dis. 30 p.c.		

PADLOCK.

English and Am., per doz.	50	6 00
Scandinavian, " "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:	Cut.	Wire.
24 and 3d	\$2 85	\$3 55
3d	2 50	3 20
4 and 5d	2 25	2 95
6 and 7d	2 15	2 85
8 and 9d	2 00	2 70
10 and 12d	1 95	2 65
16 and 20d	1 91	2 61
30, 40, 50 and 60d. (base).	1 85	2 55
Steel Cut Nails 10c. extra		
Trade and finishing nails, special sizes, 80 p.c. from new list.		

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 50 and 5 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Jarboe safety	0 16½	
American w. w.	0 17½	
Pratt's Astral	0 17	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Drass,	1 50	3 50
malleable, dis. 25 per cent.		

PAIS.

galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Crass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range ½ to 4.	100 00	
No. 56 Hand Machine, range 2½ to 6.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS.

Canadian cistern	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', " "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis 60 to 60, 10 and 5 p. c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p. c.		
Globe File Co's rasps 60 and 10 to 70 p. c.		
Heller's Horse rasps, 50 to 50 and 5 p. c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, " "	7 50	11 00
Wade & Butcher's, " "	3 60	10
Arbenz's, " "	9 00	18
Theile & Quack's, " "	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc. (Steel), 60 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 55 p.c.		
Black M. Rivets (Steel), 60 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb cartons, ½c. per lb.		
Extras on Iron Rivets in ½lb. cartons, 1c. per lb.		
Copper Rivets & Burrs, 37½ p.c. dis. and cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in ½-lb cartons, 1c. per lb.		
Burrs, iron or steel, 50 and 5 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	Sisal.	Manila.
¾ in.	10	10½
½ in.	10½	11
¼ in.	11	11½
Cotton	13	14
Russian Deep Sea	14	17
Jute	6¾	7½
Lath Yarn	8¾	9
New Zealand Rope	9¾	

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 65	
" N.P., per set.	0 80	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Diaston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diaston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.		0 75

SAW SETS.

" Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances 25 p.c.		

SCREENS.

Door, patent, per doz.	6 60	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

Wood, F. H., iron, and steel, 82½ and 5 p.c.		
Wood R. H., dis. 75 and 5 p.c.		
F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., dis. 47½ and 5 p.c.		
" F. H., bronze, dis. 67½ and 5 p.c.		
" R. H., " 2½ and 5 p.c.		
Drive Screws, 82½ and 5 per cent.		
Bench, wood, per doz.	3 25	4 00
" iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 50 and 10 p.c.		
Heinrich's, dis. 50 and 10 p.c.		
Clauss, full nickel, 50 and 10 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinrich tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent. revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	3 00	
Bright	2 75	

STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindustan, " "	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador.	0 13	
" Axle, " "	0 15	
Turkey	0	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind. per ton.	15 00	18 00

Stove Polish.



No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case,	7 50	

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk	75 and 10
Cheese-box tacks, blued	85 and 30
Trunk tacks, black and tinned	85 and 25
Carpet tacks, blued and tinned	80 and 30
" " (in kegs)	50
Cut tacks, blued, in dozens only	80 and 5
" " ¾ weights	60 and 10
Swedes, cut tacks, blued and tinned—	
In bulk	80 and 30
In dozens	80
Swedes, upholsterers', bulk	85 and 30
" brush, blued and tinned, bulk	50
" gimp, blued, tinned & janned	75
Zinc tacks	35
Leather or felt tacks	85
Copper tacks	52½
Copper nails	55
Trunk nails, black and tinned	75
Clout nails, blued and tinned	75
Chair nails	45
Cigar box nails	45
Patent 1 rads	50
Fine finishing	45
Picture frame points	25
Lining tacks in papers	10
" " in bulk	15
" solid heads, in bulk	80 and 10
Saddle nails, papers	10
" " in bulk	15
Tufting buttons, 22 line, in dozens only	60
Tin capped trunk nails	15
Zink glazier's points	10
Double pointed tacks	15

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting

— and —

Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

THE PRESS CLIPPING BUREAU

Reads every newspaper in Canada and clips there-
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**THE PRESS CLIPPING
BUREAU**

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J. CHITTENDEN,
Treasurer.

ESTABLISHED 1849.

THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,
Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United
States, Canada, the European Continent,
Australia, and in London, England.

The Bradstreet Company is the oldest and, financially,
the strongest organization of its kind—working in one
interest and under one management—with wider rami-
fications, with more capital invested in the business, and
it expends more money every year for the collection and
dissemination of information than any similar institution
in the world.

TORONTO OFFICE.

McKinnon Building, Cor. Jordan and Melinda Sts.
Thos. C. IRVING, Superintendent

THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne

All England Championship Cup, value £100, also
stake £100, in all £200, on 7th December, 1898, the winner
fired with our shot and writes us: "You will be pleased to
hear I won the All England Championship Cup. I fired
with your chilled shot. Indeed, I would not use
any other, as I know from experience it makes the best
patterns and kills best."



"BUILD TO-DAY THEN,
STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
— Longfellow.

DO YOU?

WISH THUS TO BUILD
an
advertisement
in the
**CONTRACT-
RECORD.**

TORONTO
will bring you
tenders from the
best contractors

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



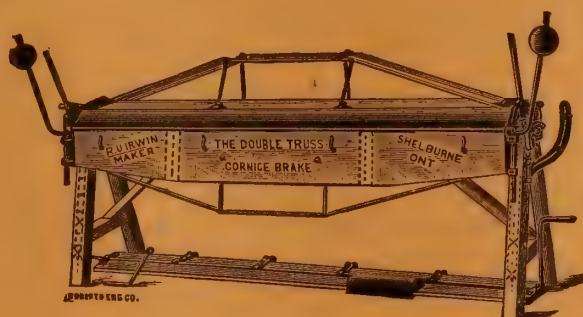
SEND FOR
CATALOGUE.

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

**Worcester,
Mass.**



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co. SHELBURNE, ONT.**

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand:

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

Awarded

By **JURORS** at

International Expositions

Special Prize

Gold Medal at Atlanta, 1895

TO INSURE COMFORT AND SAFETY

...USE...

"Maltese Cross" Inner Tubes

AND



The Toronto Rubber Co.

Limited

185 Yonge Street - TORONTO, CANADA

Spring Decorating

Are you fully supplied with the requisites of this same Spring decorating? Hundreds of gallons of our Paints, Oils, and Varnishes will be used in the next month or so. Are you going to help distribute it, or are you going to let your competitor do it for you, thereby losing the direct profits and many friends which can be gained by selling good articles such as ours?

THE JAMES ROBERTSON CO., Limited

263-285 King Street West, TORONTO

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

For all Machine Bearings.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, APRIL 15, 1899.

NO. 15



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—45 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—318 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,
266 and 267 West St., New York

Soft and Workable.

Not too soft to hold its shape,
but soft enough to stand any
test you can give it. If you
want a still softer iron, import
our "Special Soft"—same price.



CANADA

JOHN LYSAGHT, Limited

BRISTOL and MONTREAL.

LARGEST RADIATOR MANUFACTURERS UNDER
THE BRITISH FLAG.

SAFFORD Patent RADIATORS

For Heating by
HOT WATER and STEAM.

The only Radiator made without Bolts or Packing.

Highest Awards at every Exhibition where shown since
the World's Fair.

MADE ONLY BY

The Dominion Radiator Company
TORONTO Limited



RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN
Toronto, RICE LEWIS & SON
Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIPPERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."
"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

CANADA'S BEST SCALES



GURNEY

Accurate and'
Durable.

NEW CATALOGUE

DISTRIBUTED RECENTLY.

Have you received a copy of it ?

THIS NAME
GUARANTEES
THE QUALITY."



THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.

ELBOWS



Our Standard Pleated Elbows are made on our Patent Elbow Machine (Patented U. S. and Canada) and this year will be made from Blue Steel giving dark finish. We are also introducing a new feature in crating these goods that will ensure safe delivery. These are the elbows that fit any pipe, do not catch the dust, or impede the draft; made strong and neat.

THE ...

Thos. Davidson Mfg. Co.
MONTREAL. Limited

ALL OUR

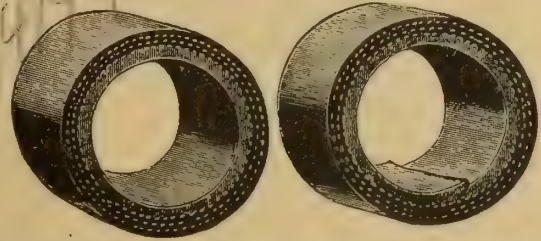
Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

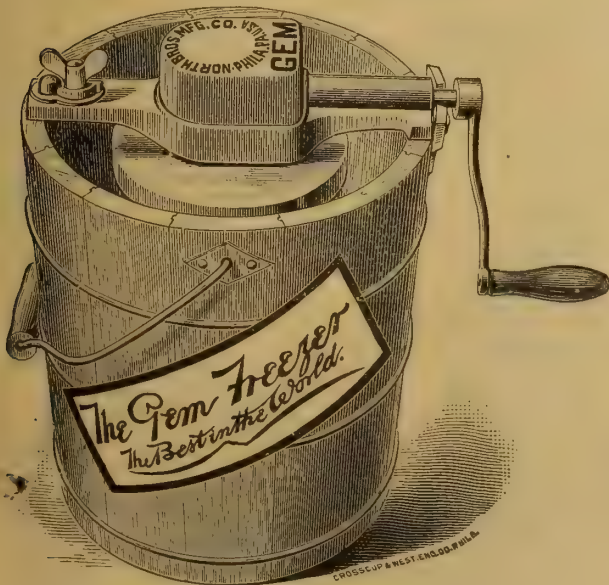
THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



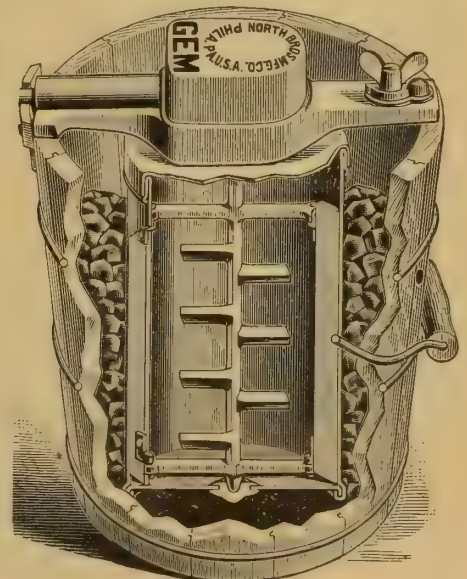
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED
DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.



In buying Spoons, Forks and Knives, in fact all Silverware, see that it is stamped with the name or Trade Marks of **The Toronto Silver Plate Co., Limited**, as stamped in that way it is fully guaranteed as to quality.

Factories and Salesrooms, King St. West, Toronto, Canada.

E. G. GOODERHAM, MANAGING DIRECTOR.

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

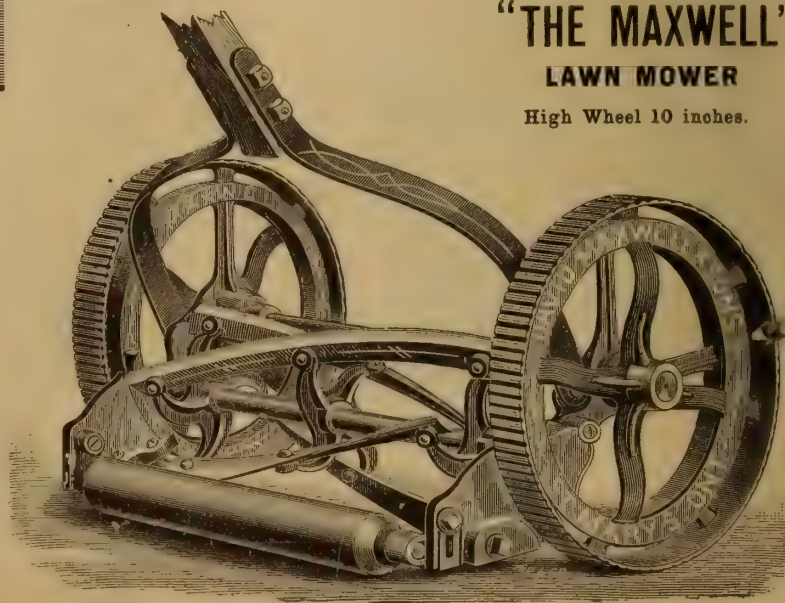
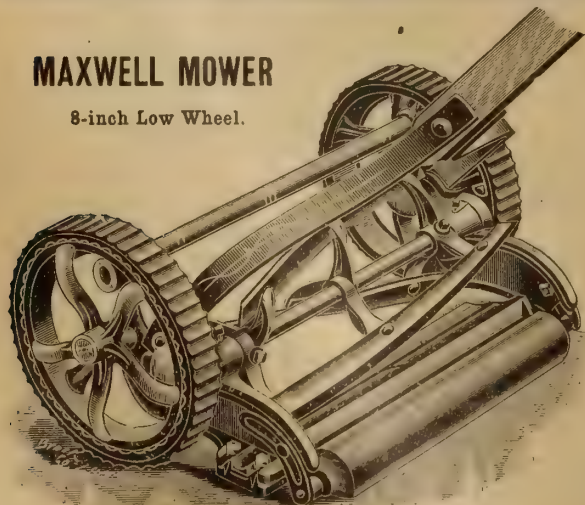
"THE MAXWELL"

LAWN MOWER

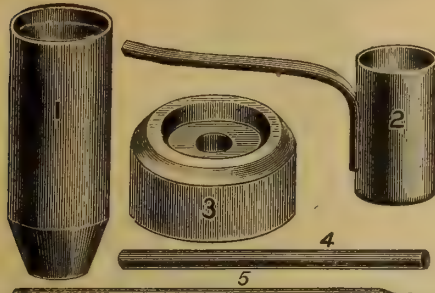
High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



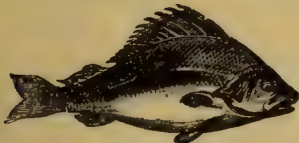
RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

Lamplough & McNaughton, Montreal

Fishing Tackle.



ALLCOCK'S STAG BRAND



TRADE MARK

The Alloock. Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

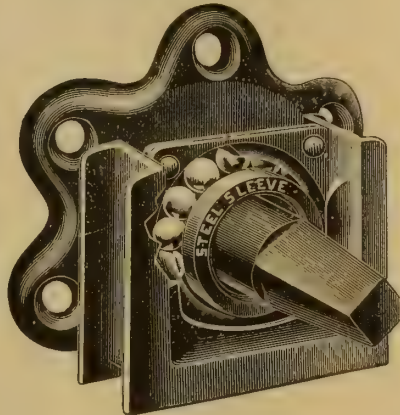
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as
supplied with new pattern stands. Easiest
running and most durable bearing made.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.



This is our Latest Stand, with
Ball Bearings.

HAMILTON, CANADA

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

The Extensive Range of Sizes and Styles

—IN—

"Quick Meal"

SUMMER STOVES

makes them specially desirable to the trade.

Both in the **GASOLINE** and **BLUE FLAME OIL** lines a variety is offered to suit any possible needs.

The New "Wickless" Blue Flame is also made in full lines this season—with a construction that defies criticism.

With these celebrated **QUICK MEAL** lines (for which we are Sole Canadian Agents) and our splendid **OXFORD GAS RANGES**, we offer the trade a comprehensive variety of summer stoves which cannot be equalled for reliability and wide range of choice.

Write for our catalogues and be fully informed—they make seasonable reading.



THE GURNEY FOUNDRY CO., Limited, TORONTO

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.

"Gordon Crown" GALVANIZED IRON

Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

	24	26	28 gauge
72 x 30	70	97	113 sheets
96 x 30	52	73	84 "

This is the **LIGHTEST IRON MADE.**

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE :

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

HEADQUARTERS.**Sanderson Percy & Co.****FINE COLORS, WINDOW GLASS, ETC.**

- - - - TORONTO - - - -

NOW READY

"VICTOR" BICYCLE LAMP

Cheapest and Best. Write for prices to
WALTER GROSE, Montreal.



MEAKINS, SONS & CO.,
 MONTREAL.

We beg to Apologize

to the many of our customers whose orders have not been filled promptly, but the extraordinary demand for our new lines has far exceeded the capacity of our factory. We have now about caught up by working our factory overtime, and any orders for

BRUSHES

entrusted to us now will be promptly filled.

MEAKINS & SONS,
 HAMILTON.

BINDER TWINE.

There is none
 "just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon**Special Manila****Tiger****Standard**

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

The Modern STOVE POLISH



PASTE.



LIQUID.



CAKE.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



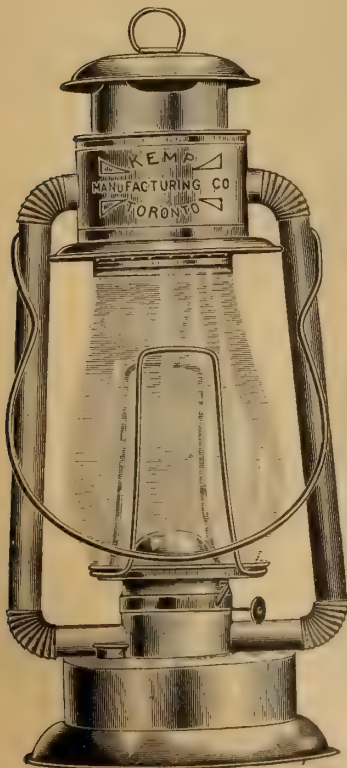
Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.

KEMP'S COLD BLAST LANTERN



The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



Vol. XI.

MONTREAL AND TORONTO, APRIL 15, 1899.

No. 15

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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Telephone 1255.
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Telephone 2148.
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M. J. Henry.
WINNIPEG - - - - - Western Canada Block,
J. J. Roberts.
ST. JOHN, N. B. - - - No. 3 Market Wharf,
J. Hunter White.

Subscription Canada, \$2.00
Great Britain, \$3.00
Published every Saturday.

Cable Address { Adscript, London
Adscript, Canada

**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

AN EXAMPLE OF UNSELFISHNESS.

IN practically every dispute between capital and labor, selfishness is at the root of it. If it is not the employer who is selfish it is the employe, and vice versa.

Through the death of Mr. Richard Cadbury, the senior member of the well-known English cocoa manufacturing firm of Cadbury Bros., the world has learned that there is at least one firm in whom there is no appearance of the quality in question.

For the convenience of its nearly two thousand employes, Cadbury Bros. erected buildings for use as cooking, recreation and dining-rooms, while in the gardens which surrounded the works were placed pretty little arbors where the girls connected with

the works could retire in their spare moments to read or gossip.

Not only, however, does the firm take an interest in the present welfare of its employes, but it proposes to look after their future when old age and incapacity for work are upon them, having, with that end in view, in the course of erection 38 dwellings or almshouses, which, exclusive of the site, will cost about \$350,000.

The practice of assembling the employes every morning after their arrival at the works at 9 o'clock and reading to them a portion of Scripture may be accounted sentimental nonsense by certain people, but, whether we look at it in that way or not, the motive is obviously the welfare of the working people, while, what is equally obvious, the firm does not begrudge the time which its factory is kept idle in the meantime.

As might be expected harmony prevails among employer and employe, and it is the proud boast of the firm that a labor dispute of any kind has never developed in its works. This, in a land where strikes and labor disputes abound, is significant.

Manufacturers in Canada and the United States often boast of the superior equipment of their factories compared with those of their confreres in Great Britain, but in treatment of their employes they have, as a rule, much to learn from such British firms as that of Cadbury Bros. and others, for there are others.

The hoop iron manufacturers in the United States are now trying to bind themselves together, and it is said that a few days will see the combination completed. Nine plants are included in the scheme. The subscriptions are already in excess of the amount required.

MILLIONS OF DOLLARS LOST.

When ships go out to sea they not only risk the lives of those on board but the dollars as well of the marine insurance companies.

So far this year the losses have been heavy. Inside of two months the wrecks of the Labrador, the Castilian, the Moravia, and the Scottish King alone have entailed a loss to the insurance people of at least \$3,000,000.

Then, there sailed from this side of the Atlantic between January 25 and 29, such vessels as the Arona, Croft, and Port Melbourne, besides others, which must have met with and foundered in the storms which swept the Atlantic after they sailed.

The loss of the Arona, Croft, and Port Melbourne, meant the loss of another \$3,000,000, besides about 300 lives. Taking the several vessels named it is estimated there was a total loss of about \$6,000,000 to the marine insurance companies, and there are many many vessels besides these that either foundered or went to pieces upon the rocks.

BLAST FURNACE AND ROLLING MILL TO UNITE.

Negotiations are pending with a view to the amalgamation of The Hamilton Blast Furnace Co., Limited, and The Ontario Rolling Mill Co., both of Hamilton, Ont., and from what HARDWARE AND METAL can gather, the amalgamation is likely to be effected.

The Ontario Rolling Mill Co. was started about 11 years ago. The Hamilton Blast Furnace Co., Limited, began operations in 1896, and has been gradually increasing its output. Last year it produced 48,253 tons, which was the largest quantity produced by any one furnace in the Dominion.

DO NOT WANT ENGLISH SHOVELS.

"TRADE within the Empire," preferential tariff, and all the other war cries to the contrary, there is one line of English goods that cannot be imported into Canada, despite the fact that its importation would be of direct benefit to the users of such a tool.

Draining shovels are the line in question.

It is claimed for these English shovels that they are better made than domestic, which sell at a similar, or rather, higher, price.

Agents for standard English makes stated this week that the goods could be laid down in Canada at a cost of \$3.60 per dozen, whereas goods of Canadian manufacture cost \$5.60, or \$2 per dozen more, the price of the latter having been advanced lately. Under ordinary circumstances, the cheaper goods ought to get the preference, but the difficulty is, that the British makers do not make a full line of shovels, such as are called for in Canada.

The Canadian makers do. On account of their agreement they have the whip hand of any jobber who might be disposed to handle such English shovels as are suitable to the Canadian trade, and which could be sold for less money, as pointed out above.

Two instances were brought under **HARDWARE AND METAL'S** notice this week which show how dependent the jobber is upon the manufacturer. In both cases the jobbers were Montreal firms, who notified the agents with whom they had been negotiating on English shovels that, owing to circumstances over which they had no control, the deals were off.

The circumstances referred to simply were: If the firms in question presumed to handle any English shovels, the Canadian makers would not allow them the customary rebate on shovels which they had bought from them.

HARDWARE AND METAL has already fully discussed this matter, so that further comment is almost superfluous in regard to this latest instance.

Of course, if the English makers turned out a complete line of shovels, such as are required in Canada, jobbers would hardly be likely submit to dictation of this kind.

When this point was suggested to one

agent for the English goods, he explained that makers in England were so busy at present that Canadian orders did not cut much of a figure. With less of a rush at home, they might be more disposed to think of the Canadian market and consult its wants more closely. At present they did not seem to care. The result, therefore, is, that some English shovels, which cost \$2 per dozen less than the Canadian article, are kept out of the country, not by the tariff, but simply because Canadian jobbers have agreed with Canadian makers not to handle the imported article, be it English or American.

THE IRON MINING TROUBLES.

THE news of labor troubles in the iron ore districts on Lake Superior is attracting some thought from iron manufacturers and dealers generally.

According to recent advices, 3,000 men have already gone out. The mining companies marketed this year's output at an advance of only 20c. per ton before the upward movement in the iron and steel markets had gathered its full force. Consequently they are not in a position where they can reap the full benefits of the late appreciation in values.

With iron manufacturers pushed to their full capacity, any interruption to their ore supply, through the cessation of mining operations, would prove most serious just at present. Accordingly, the course of events in the Marquette district are being watched with keen interest by the iron trade, not only in the United States but also in Canada.

The industry generally is under an extreme strain, and the weakening of such an important link would certainly have great influence in curtailing the output.

A BLAST FURNACE FOR TORONTO.

THE Ottawa correspondents of the daily papers announced on Thursday morning that a blast furnace is to be started in Toronto.

This is the blast furnace which **HARDWARE AND METAL** first announced over a year ago was to be located in the "Queen City."

The promoters are well-known pig iron makers and dealers in the United States,

whose names we do not feel at liberty to mention at the moment, and they have associated with them a few Canadian capitalists.

The capacity of the proposed furnace is 200 tons per day, and the capital of the company \$2,000,000.

The company is anxious to know whether the present bounties will be maintained, and **The Globe's** correspondent makes the significant remark that "it seems there is no doubt that the present Dominion bounty of \$3 per ton on domestic ore will be retained."

The Federal Act to provide bounties on iron and steel, was assented to on June 29, 1897, and the paragraph relating to pig iron reads as follows: "On pig iron manufactured from ore, a bounty of \$3 per ton on the proportion produced from Canadian ore, and \$2 per ton on the proportion produced from foreign ore."

Besides this there is the bounty of \$1 per ton paid by the Ontario Government.

A GRATUITOUS INSULT.

THE member for North Ontario in the Ontario Legislature, Mr. W. H. Hoyle, is a business man, and as such he has seen enough to convince him that the division courts of the Province are not conducted, as a rule, in a business-like way. In his own county, for example, he held that one judge was sufficient, and accordingly brought in a bill providing for such.

Among those opposed to the bill was the Premier, and, during a speech thereon, he suggested that Mr. Hoyle in future devote himself to funeral reform instead of to law reform. Mr. Hoyle, it may be stated, is a furniture dealer and an undertaker.

This was a gratuitous insult, not only to Mr. Hoyle, but, indirectly, to every business man in the House.

It is the business men of the country who are the greatest sufferers from the effects of defective laws, and particularly those relating to the division courts. Such being the case, who then has a greater right than a business man to try and bring about the desired reforms? No one.

Mr. Hoyle's bill may not have been the best panacea for the particular evil it was designed to remedy, but, whether it was or was not, it was decidedly improper for Mr. Hardy to speak as he did.

As an intelligent man, as a man thoroughly conversant with the defects in the law system of the Province, he should encourage, rather than discourage, business men in the House to lend their aid in remedying these defects.

A WEEK'S CHANGES IN PRICES.

ADVANCE IN BOLTS AND NUTS.

ANOTHER advance has taken place in bolts and nuts. This is the second within five weeks. The previous advance was on March 3.

Discounts are now as follows :

	New List. per c.	Old List. per c.
Norway bolts, full square?	70	60 and 15
Common carriage bolts, 5-16 and under.....	60	62½
Common carriage bolts, ¾ and larger	55	
Common carriage bolts, full square.....	70	
Machine bolts, all sizes.....	60	
Coach screws	75	
Sleighshoe bolts	75	
Blank bolts.....	60	
Bolt ends	65	
Nuts, square	4½	
Nuts, hexagon	5	
Tapping nuts.....	70	
Tire bolts.....	65 & 10	

NEW TACK LIST.

The new discount sheet on tacks, issued on April 7, and applying to the tack hardware list of February 10, 1899, is as follows :

TACKS.	New List. per c.	Old List. per c.
Strawberry box tacks, bulk.....	75 and 10	75 and 10
Cheese box tacks, blued, bulk.....	85 and 10	85 and 30
Trunk tacks, black and tinned, bulk	85 and 10	85 and 25
Carpet tacks, blued and tinned.....	80 and 10	80 and 30
Carpet tacks, in kegs.....	45	50
Cut tacks, blued, doz. only.....	75 and 12½	80 and 5
Cut tacks, ¼ weights.....	60	60 and 10
Swedes cut tacks, blued and tinned—		
In bulk	80 and 20	80 and 30
In dozens	75	80
Upholsterers', bulk	85 and 10	85 and 30
Brush, blued and tinned	50	50
Gimp, blued, tinned and japanned.....	75	75
Zinc tacks	30	35
Leather carpet tacks	60	65
Copper tacks.....	50	52½

NAILS.

Copper	52½	55
Trunk nails, black, tinned.....	70 and 12½	75
Clout nails, blued and tinned.....	70 and 10	75
Chair nails	40	45
Cigar box nails	40	45
Patent brads	45	50
Fine finishing.....	45	45
Picture frame points.....	25	25
Lining tacks, solid head, bulk.....	80	80 and 10

CAPPED GOODS.

(List December 23, 1898.)

Lining tacks, in papers.....	10	10
Lining tacks, in bulk.....	15	15
Saddle nails, in papers	10	10
Saddle nails, in bulk	15	15
Tufting buttons, 22 line, in doz.	60	60
Tin capped trunk nails.....	15	15
Zinc glaziers' points.....	5	10

Terms, 4 months approved credit or 3 per cent. discount for cash in 30 days from date of shipment, f.o.b. Montreal, Quebec, Toronto, Hamilton, London, St. John and Halifax. Prices are subject to change without notice.

NEW HORSESHOE PRICES.

A new scale of prices has been issued on horseshoes which calls for a rise of 10 to 25c., while the quotations are arranged

somewhat differently to the old scale. The following is the new arrangement compared with the old :

	New Scale. No. 2 and up.	Old Scale. No. 1 and Smaller.
Iron horseshoes.....	\$3.25	\$3.50
Light and medium patterns	\$3.25	\$3.50
Snow shoes.....	3.50	3.75
Steel shoes.....	3.50	3.75
Featherweight, No. 0 to 4.....		4.75
Toe-weight steel shoes.....		5.75

These prices are f.o.b. Montreal ; for delivery in Toronto, Hamilton, London and Guelph, 10c. per 100 lb. advance is required.

NEW LIST ON SMOOTH WIRE.

The new list of extras in smooth steel wire has been issued, and an advance of 5c. has taken place in the base price. The list is as follows :

Nos. 2 to 5 advance.....	7c. per 100 lb.
" 6 to 9	Base.
No. 10 advances.....	7c. per 100 lb.
" 11	14c. " "
" 12	20c. " "
" 13	35c. " "
" 14	47c. " "
" 15	60c. " "
" 16	75c. " "

Prices f.o.b. Montreal and Hamilton :

EXTRAS NET.

	Per 100 lb.
Coppered wire.....	\$ 60
Tinned wire.....	2 00
Oiling	10
Special hay-baling wire.....	30
Spring wire.....	1 00
Best steel wire.....	75
Bright soft drawn.....	15
In 50 and 100-lb. bundles net.....	10
In 25-lb. bundles net.....	15
Packed in casks or cases.....	15
Bagging or papering.....	10

The base price is advanced, and is now \$2.50 f.o.b. factory.

MISCELLANEOUS CHANGES.

The manufacturers of locks in Canada have issued a new price list, but the discounts remain as before.

The Canadian and American manufacturers of loaded shells have advanced the price of loaded shells 20 per cent.

The price of flour-barrel nails has been advanced, the discount now being 35 per cent. The discount on coopers' nails has been reduced to 45 per cent.

Manila rope is ½c. per lb. dearer, the base price now being 11c.

Pig tin has been advanced 1c. per lb., Lamb and Flag now being quoted at 29c. per lb., and Straits at 28 to 28½c. per lb.

SPADES AND SHOVELS DEARER.

The manufacturers of spades and shovels in Canada this week announce an advance of \$1 per dozen in the price of spades and

shovels, and of \$1.50 per doz. in scoops and draining tools.

The discount is now 40 and 5 per cent. instead of 40 and 10 per cent as formerly.

NEW LIST OF SHOEFINERS' GOODS

The new list on shoefinders' nails and other similar articles issued April 7 is as follows :

SHOE NAILS, ETC.

Iron shoe nails, 15 gauge and heavier ..	12c. per lb.
Soft steel shoe nails ..	12c. "
Swedes shoe nails ..	14c. "
Zinc shoe nails ..	20c. "
Hard steel shoe nails ..	30c. "

Lighter gauges add 3c. per 100 lb. extra to list.

2½-8 3/8 3½-8 4/8 4½-8 5/8 & heavier.

Channel.....	63	35	30	27	25	23c. per lb.
Hungarian.....	15	14	14	13	13	13c. "
Hob nails, all sizes.....						17c. "
Zinc shank nails, all sizes.....						25c. "

TACKS.

Miners' tacks—	3/8	3½-8	4-8 and longer
	23	20	16c. per lb.

Shoe tacks—

	¾	¾	1	1½ oz.
In M's.....	39	39	39	39c. per doz.
Pounds.....	\$1.10	70	40	31c. per lb.
		2½	3	4 oz.
In M's.....	48	54	58	58c. per doz.
Pounds.....	28	26	23	22c. per lb.

SHOE RIVETS.

	18	17	16	15 gauges and heavier.
Steel wire....	12	10	8	8c. per lb.
Brass wire....	40	35	35	35c. "
Clinching point steel.....	20	17	15	15c. "
Clinching point brass.....	55	50	45	45c. "

N.B.—All goods packed in less than 1-lb. papers, 1c. per lb. extra, net, except hob and Hungarian nails, which are packed in ½-lb. papers without extra charge.

The discount sheet on the above adopted the same date is :

SHOE TACKS.

In M's.....	52½ p.c.
In lb. papers—	
Machine lasting tacks.....	62½ "
Ordinary tacks	66½ "

SHOE NAILS, ETC.

Swedes shoe nails, 15 gauge and heavier ..	62½ p.c.
Soft steel nails ..	62½ "
Iron nails ..	62½ "
Zinc nails ..	35 "
Hard steel nails ..	35 "
Channel nails ..	50 "
Hungarian nails ..	45 "
Miners' tacks ..	35 "
Hob nails ..	35 "
Zinc shank nails ..	35 "
Steel wire shoe rivets ..	15 "
Brass ..	20 "
Clinch point or duck bill shoe rivets ..	20 "

SHOE NAILS.

100 lb. bulk of one size (not in 1-lb. papers) 25c. per 100 lb. off face of invoice after deduction of discount.

Terms, 4 months approved credit or 3 per cent. discount for cash in 30 days from date of shipment, f.o.b. Montreal, Quebec, Toronto, Hamilton, London, St. John and Halifax. Prices subject to change without notice.

CAN RETAILERS DO A CASH TRADE ?

THE VIEWS OF THREE RETAILERS IN
"THE CANADIAN GROCER."

A FEW weeks ago, a communication regarding the possibility of doing a cash trade, together with an editorial dealing with the same, appeared in the columns of *The Canadian Grocer*. The writer of the communication questioned whether a strictly cash trade was possible. A few letters have been received at this office in reply to this communication. Three of these are herewith reproduced :

THE CASH SYSTEM FAILED.

Editor *Canadian Grocer*,—Your article in last week's issue, "Who Does a Strictly Cash Business?" was noted with much interest, a response to which I look forward to with even greater. It is a matter which I believe has kept me thinking fully as much as the inquirer of this question, considering the time I am in business; and I have also finally come to the same conclusion, that it is an impossibility in the grocery business.

I started in groceries and crockery in 1886, and, during said time, I have also attempted repeatedly to do a strictly cash business, but failed to succeed. As far as the crockery department is concerned, I find it would be an easy matter for me to carry it out to the letter, but, as the grocery business is so different, owing to most peculiar circumstances popping up from time to time, that it very often appeared to me to be poor policy to refuse to grant credit.

One of the worst obstacles in the way of a successful cash grocery business is the telephone, notwithstanding that the delivery man was furnished every morning with a certain amount of change to meet all emergencies, yet what was policy to do when goods were delivered, when it happened that the lady of the house was entertaining company, upstairs with the family, this of that. You certainly should not refuse leaving the goods there and disappoint a good customer of one thing or another in said order which perhaps they most particularly needed for the coming meal. In fact, there were scores of objections to telephone orders, so much so that, in course of another year, when another attempt at cash was made, I had my telephone taken out, but only to have it put in again in course of about six months, customers complaining of the inconvenience. Yet, I had thought what I might lose in the sale of goods which would be furnished by my brother grocer (who had telephone connection) when an order was needed in a hurry, convenience or otherwise, I would fully be able to make up by selling them more goods at any time when said customers would come to the

store, by being able to show them specialties, new lines, etc., which one finds impossible to do by telephone. But there, again, it proved to me that I was giving a steadfast customer an opportunity of going where the telephone proved such a convenience, that, in calling to pay for the goods received, the customer could hardly be expected to avoid showing appreciation by making more or less further purchases.

Then there is the fruit season when you have daily shipments coming forward. I have no doubt all merchants have seen themselves overstocked, who handle the same extensively; most particularly grocers in smaller towns. The smaller the town the worse it is owing to the traffic being limited; while in the city you generally have an opportunity of clearing out the old stock at some price or other for cash, while in the country it is impossible at times, no matter how cheap you offer. It is then policy to sell whether on cash or credit, even if the latter is far from gilt-edge, in order to have a chance to realize something. Then you find many customers who are quite willing to pay monthly or weekly as their pay may be forthcoming, who could not be induced to adopt the strictly cash business, owing to inability or otherwise, which seemed poor policy to see their accounts go elsewhere.

After failing to succeed in the cash I made another attempt, by giving credit in cases of emergency or convenience only until the following fourteenth, as our factories, who pay only once a month, pay on said date. Every bill that went out was stamped thus: Immediately after the fourteenth

This bill is due on the following 14th, when kindly remit for same, and oblige,
Respectfully yours,
GEO. HASENFLUG.

statements were rendered to parties not having complied with our terms thus: This is positively the nearest I have suggested to coming to a cash business, notwithstanding that many statements require to be rendered many times, and perhaps finally fail even at that in bringing them too; yet, on the whole, I find it answers my business better than strictly cash, or pay up by New Years, as most of our general stores in our vicinity are doing.

G. HASENFLUG.

Waterloo, Ont.

NOT PRACTICABLE IN HIS TOWN.

Editor *Canadian Grocer*,—The question, "Can a merchant do a strictly cash business?" interests me intensely. I am afraid not here. Our people are conservative. It is an exclusively agricultural

section. They depend on their, say August to October, sale of butter and cattle to pay their bills. We usually get the former at 2 to 3c. a lb. above what we can net out of it, to pay store accounts that have been running a year, often longer. If a customer can't pay any or all of his account, he would feel hurt if asked to sign a note for the balance. Some have told me they never gave a note in their life.

The cattle sold usually go to pay taxes, and some of it, it is true, to the departmental stores—it would be interesting to know how much.

We cannot buy their butter for cash, sell it and live. It is dairy.

What are we to do? If we do not buy their produce someone else will get the trade. Our credit—if we must give it—is for too long. I am afraid the volume of business for cash is not sufficient, but then there are no losses.

S. STEVENSON, JR.

Kinnear's Mills, Que.

In answer to "Subscriber," who asks, "Who does a strictly cash business?" I, as a subscriber to *The Canadian Grocer*, take the opportunity to throw some light on the subject of the cash basis of business in a general store in a country village. I have been doing business on the cash basis for two and a half years. The first two years I did fairly well, but there was always someone who had forgotten his pocketbook and six miles from home. Are we as business men going to let him go home without his goods, he being a responsible farmer, perhaps worth \$6,000 or \$7,000? No. I say give him the goods by all means, for if you don't your competitor will sell to him ever after. "Well," says one, "that is a very rare case." But it is not so rare as you would imagine.

For instance, a customer wants a pair of boots for his little boy and does not know the size. Wants to take two pairs and return one. What are you going to do, as possibly the price of the two pairs of boots differs 50c. per pair? Why, you must enter them on your book, providing he or she

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

does pay for one pair and also enter price paid for other pair.

Then a good farmer wants some goods, and he has not the money to advance till, probably, the cheese factory starts. Again, you cannot afford to let him go across the street and get credit, and then buy ever after.

I am doing a cash business, but have to put some names on my book every day. Some pay every day. If they don't pay in one month I ask them, and this is the way I have to deal. I sold \$14,000 in two years and only had \$40 on my book when the end of the year came. Possibly I will lose it. I had about \$1,000 on my books in the whole two years, but claim that the \$40, if lost, is not really lost, for, if I had not sold the goods, that is \$1,000 worth, I would have been minus of profits on same, and besides holding my customer, so that when he has the cash he would leave it with me.

In some places I believe a purely cash business would be all right, but not here. I think a merchant should study his customers, and he, only, knows whether a cash business would flourish or not.

I would advise to keep it before the people's minds that you are doing a cash business and work away till you are rich, then drop out and live a retired life and give some one else a chance.

Lansdowne, Ont. A SUBSCRIBER.

KLONDYKE MINING.

Probably the greatest difficulty which miners in Klondyke and similar districts have to contend with is to thaw the hard frozen soil. Needless to say, the use of bonfires for this purpose is extremely inefficient, by the greater part of the heat running to waste. Electricity is apparently trying to come to the rescue, for we understand that an electrical thawing syndicate has been formed in this country to exploit certain patents of a Canadian inventor, who proposes to thaw the earth by sending strong currents through it between embedded metal plates. It has been suggested that ordinary electric radiators might be economically employed in this direction by being laid flat on the ground and carefully covered over to prevent waste of heat.—Ironmonger, London.

ALUMINUM FOR SOLDIERS' KITS.

L'Electrochimie is responsible for the statement that before two years have passed the whole French army will be provided with aluminum kits, the outfit comprising mess-pans, water-flasks and stewpots. The purity of the metal used has been satisfactory, averaging 99.5 per cent. The price is at present down to practical figures, being only about 1s. 1d. per lb. As for the weight

of these utensils, which is the primary question for the soldier, it may be said that on an average they weigh only half as much as similar ones in sheet iron, thus relieving each man of more than 2 lb. of deadweight.—Ironmonger.

BENT GLASS.

BENT glass was at one time more commonly used for showcase fronts than for anything else, but it has come to be employed for a variety of purposes, and it is now used far more extensively than ever before, says The Journal of Commerce. Its use in store fronts is becoming more and more familiar, very large plates being bent for this purpose. It is now used more than ever before in the construction of buildings for dwelling purposes, in windows on rounded corners and in towers; it is used in coach fronts; it is used in the rounded-front china closets, and in making glass cabinets. Either plain glass or bevelled glass may be bent, and to any curve.

For one use and another glass in many sizes is now bent in many forms. The number of moulds required for current use in a glass-bending establishment is large, and the accumulated moulds number thousands.

Glass is bent in a kiln. Glass melts at 2,300 deg.; the heat employed in bending is 1,800 deg. No pyrometer would stand long in that heat; it might last an hour, but it would not last a day, and so the heat of the kiln is judged from the color of the flame and other indications. By long experience and observation the expert glass bender is enabled to estimate the heat in this manner with accuracy. Smaller pieces of glass are put into the moulds in the kilns with forks made for the purpose. The great moulds used for bending large sheets of glass are mounted on cars, so that they can be rolled in and out of the kilns. The glass is laid upon the top of the mould over the cavity and it is bent by its own weight. As it is softened by the heat it sinks into the mould and so is bent into forms. It may take an hour or two to bend the glass, which is then left in the kiln from 24 to 36 hours to anneal and cool. Glass to be bent, of whatever kind or size it may be, is put into the kilns in its finished state; the great heat to which it is subjected does not disturb the polished surface. Despite the exercise of every precaution more or less glass is broken in bending it. Bent glass costs about 50 per cent. more than the flat.

While the use of bent glass has increased very greatly in recent years, and is still increasing, and the amount used is, in the aggregate, considerable, yet, as compared with the enormous amount of glass used in ordinary forms, the amount of bent glass used is, of course, small.

It's an old story now.

The success of

THE SHERWIN-WILLIAMS PAINT

in Canada is an old story now. It's had an unbroken record of progress from the day it was first introduced—getting on to four years now, and still the increase keeps up.

Old agents continue to make gains, and new ones are constantly being added.

Success does not spoil us. It stimulates us to greater efforts, to more care, to better service, to improved methods.

Excellence in everything, is our one great aim.

The Sherwin-Williams Co.

Paint and Varnish Makers

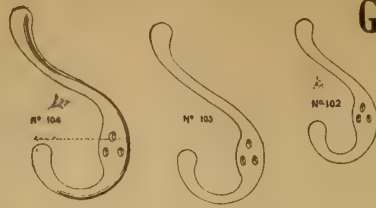
CLEVELAND
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TORONTO

IS THE HIGHEST POINT TOUCHED?

The Pittsburg correspondent of The Iron Trade Review writes: "The feeling is growing that the highest point in the market is being approached, and there are some who express confidence that the average for the latter half of the year will be lower than the present. Little support for this belief can be found in present conditions. There have been a number of advances during the week under review, but they are mainly of little significance as indicating the general trend, being merely advances in finished material which no more than establish the proper relation with raw material which had been distorted by the rapid advances in the latter. The large sales of Bessemer pig iron, consummated last week, have established pretty thoroughly the price of \$14.50 for Bessemer pig, and in more finished lines values are being established on this basis. While the present range of prices is likely to be well maintained through the summer, conditions may change sufficiently toward the close of the year to admit of somewhat lower prices; but of this there can be no certainty, and it is strongly held that steel products are a safe purchase at present prices well through the summer. The former price on rails, \$22 per 100-ton lots and upwards, was withdrawn recently, in view of the fact that billets had reached a much higher figure and negotiations have been on to establish a new basis. Meanwhile, temporary figures are quoted, and the figure of \$25 has been made in the local market for both light and heavy sections, but it is not certain that the final price of the Central Western combination will be at that figure. There is increased demand for such lines of finished material as structural iron, which is affected by the approach of seasonable weather for outside operations, and in every direction there are signs of a very heavy use of iron and steel this summer, although it is reported, and, doubtless, correctly, that some projected operations are being delayed by the high prices."

A RESIDENT AGENT APPOINTED.

F. H. Scott has been appointed Canadian agent for Deakin, Sons & Co., Limited, of Sheffield, England, and is now showing a fine line of goods made by this firm. His samples comprise all the latest novelties in sterling silver, nickel silver, and oak-mounted goods. This firm has always done a fair Canadian trade, but thought by having a resident agent here it might extend it. Mr. Scott also represents Maleham & Yoe-mans, cutlers, of Sheffield, and Hawksworth, Eyre & Co., manufacturers of candelabra, etc., and expects to visit Toronto and other western cities in a week or so.

**Gunn's Patent "Brassic" Goods**

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited**KNOX HENRY,**

Canadian Agent, 220 1/2 Board of Trade, MONTREAL

INCREASE*Your Spring***TRADE**BY SHOWING YOUR GOODS
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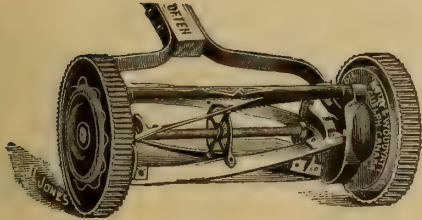
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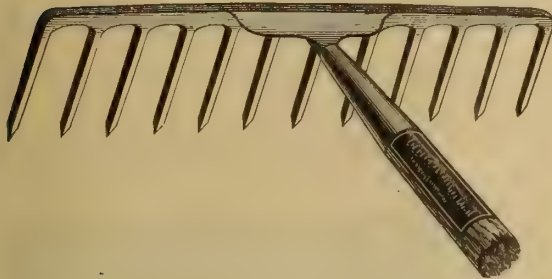
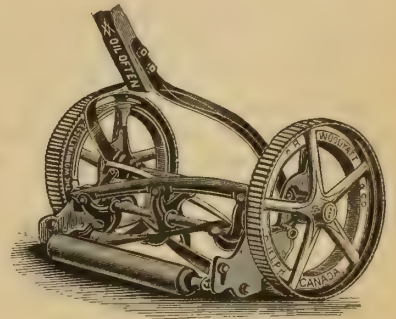
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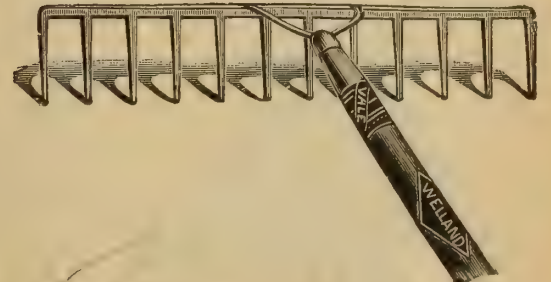


Lawn Mowers



Rakes

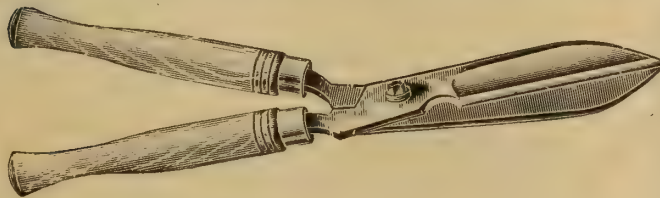
Malleable
and
Steel



Garden Shears

Garden Shears

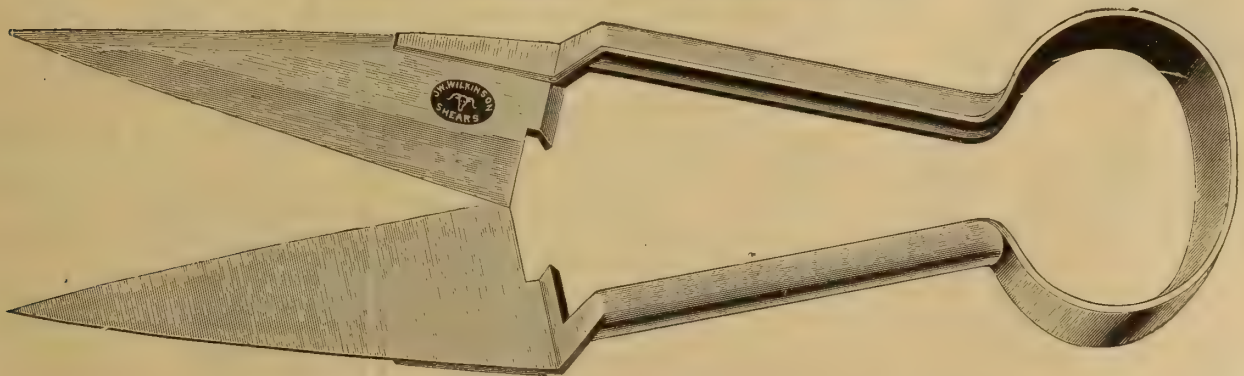
7½-in. Plain Blades
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LAWN AND BORDER SHEARS

Long Handle
9-in. Plain Blade

Sheep Shears



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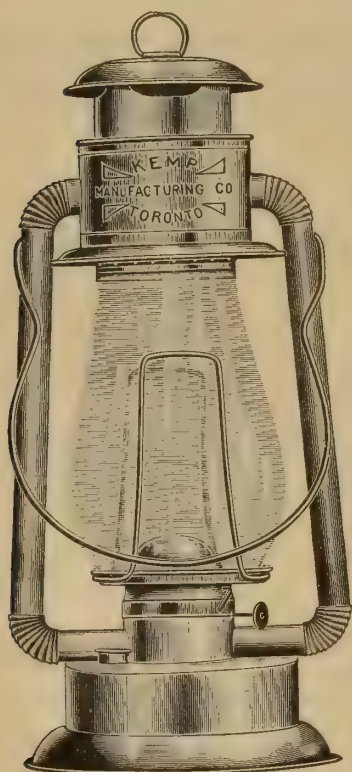
We Ship
Promptly.

A STORM-PROOF LANTERN.

A LANTERN which will not only not blow out in a very strong gust of wind, or that, provided it is not extinguished, will give light in a gale, is something to which the various manufacturers have, for a long time, been paying a great deal of attention.

Among those who have been thus experimenting is The Kemp Manufacturing Co., of Toronto, and, during the last four months, it has been particularly persevering in this respect, with the result that it is now able to place a lantern on the market which, from the tests which **HARDWARE AND METAL** saw applied to it, seems quite equal to any kind of wind storm.

In the works of The Kemp Manufacturing Co. is a large shaft through which air is



forced by a fan of enormous size and power. Into this shaft were thrust two of these improved lanterns, which, if they had not been firmly held, would have been blown up the shaft. But the light did not go out in either, nor did the flame go even below the cone, thus showing that, in the strongest of breezes, the lantern would throw out a good light. The globes were not even smoked.

The accompanying cut shows this new lantern. The tubes are of one piece, and are, as will be noticed by the illustration, fitted with patent corrugated elbows, made upon the same principle as Kemp's stove-pipe elbows. Another feature about the lantern is that the burner has an extra deep flange which holds it firmly in place. As the globe swings back and gives free access

to the burner the lantern is lighted with ease. The lantern will doubtless take well with the trade.

NEW YORK METAL MARKET.

PIG TIN—The market was lower and unsettled, yielding to the weight of heavy arrivals here this week and a sharp reaction in London prices to-day. No less than 1,075 tons have arrived during the past two days. Of this a considerable portion was sold previously, but a good amount is left over, some of which was indirectly offered at prices a good margin below current market quotations. There is, for that matter, no regularity in prices at the moment. The range of 24 $\frac{7}{8}$ to 25c. was quoted for five-ton lots and 25 $\frac{1}{4}$ to 25 $\frac{1}{2}$ c. for smaller quantities at the close.

COPPER—Generally speaking, the situation is the same as it has been for some time past. Both home trade and export buyers operate very conservatively, and make the most they can of that policy to bring about a modification of sellers' prices. However, there is little or no yielding by the mining companies on either early or distant deliveries. The line of prices quoted is about 18c. for Lake Superior ingot, 17 $\frac{1}{4}$ to 17 $\frac{1}{2}$ c. for electrolytic bars, etc., and 17 to 17 $\frac{1}{4}$ c. for ordinary casting stock. In the London market, prices on merchant bars were a shade higher.

PIG LEAD—For this metal a dull market was reported, and there was complete absence of new feature of an enlivening nature. Offerings were not at all urgent, however, and 4.30c. seemed to have been as low a price as either prompt or near future deliveries were obtainable.

SPELTER—About the ordinary business is taking place here, with carload lots the largest purchases, and the market is without really new feature. Prices are being held quite firmly, however, at about 6 $\frac{3}{8}$ to 6 $\frac{1}{2}$ c. for standard brands, delivered here.

ANTIMONY—About the ordinary business in regulus is passing, and prices remain at about 10 to 10 $\frac{1}{4}$ c., as to brand.

TINPLATE—Dealings in foreign plates have fallen off somewhat, and business in American makes is rather slow. Prices are slightly irregular, with a leaning in buyers' favor.

IRON AND STEEL—Business in pig iron is of ordinary type, yet of good total amount, and prices keep within the range that has been ruling for some little time past, although not as strong superficially as they were a short time ago.

Old material is rather quieter, but held firm at unchanged prices.

Steel rails and fastenings are quiet in this quarter.—N.Y. Journal of Commerce.

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COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and
Wagon Jacks,
Harness Snaps, Chain, Rope and Web
Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.

PRIEST'S CLIPPERS
Largest Variety,
Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and
Sheep-Shearing Machines.
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HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
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WORCESTER, MASS.

McLaskill, Dougall & Co
Fine Varnish & Japan
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Price Lists on application

Size,
 $\frac{3}{4}$ -inch.

**Cheapest
IN THE
WORLD.**

J. M. LITCHFIELD
458 Quincy St.,
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**The Daisy Sanitary
Earth
Closet**

Made
entirely of Metal,
and Ventilated.
Designed for dwellings
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closets cannot be used.
Price, \$15.00
Write for circulars and
trade discounts.
**16 Queen St. East,
TORONTO.**
Headquarters for
Builders' Castings,
Sash Weights, etc.
**THE TORONTO
FURNACE AND
CREMATORY
CO., Limited**

CATALOGUES, BOOKLETS, ETC.

JOHN MILLEN & SON.

To the hardware dealer with a bicycle department, a most useful work of reference should be found in the '99 catalogue of bicycle parts, sundries and tires issued by John Millen & Son, Montreal. This firm handles everything in the way of bicycle supplies, from complete frame sets to pumps or bells, and everything in the way of repair shop supplies, from brazers and

forges to spelter or naphtha. The range of goods carried is well shown in the 110-page catalogue which they are now offering to the trade.

FOR HEATING CONTRACTORS.

The Gurney Foundry Co., Limited., are sending out a folder giving, besides some pointers regarding their hot-water heaters, steam boilers and radiators, some timely suggestions regarding preparations for the coming season.

GARTH & CO.'S FIRE.

Garth & Co.'s extensive brass works on Craig street, Montreal, were destroyed last week by fire. Besides being a large monetary loss, it will greatly inconvenience them in filling a large quantity of orders. They have temporarily moved their office to the street railway building, and have moved part of their works to Cote street. They will commence rebuilding at once, and expect soon to be in a position to fill orders with reasonable despatch.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

Dunlop Tires

"They will stand the hardest kind of hard wear."

And cyclists think so much of them that a Dunlop-tired mount can be sold twice while any other kind of tires are being half sold.

Here's the Trade Mark that tells of their easy-ness.

TRADE MARK

"The only tools you'll need."

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

LEFEVRE & TASCHEREAU have been appointed curators of Eusebe Peltier, general merchant, Etchemin, Que. His assets are to be sold.

C. Laveau, hardware dealer, Quebec, has suspended.

Kempton & Canfield, general merchants, Wallace, N.S., have assigned.

Joseph Carbonneau, general merchant, Normandin, Que., has assigned.

Assignment has been demanded of Joseph Carbonneau, general merchant, Normandin, Que.

O. Ricard, general merchant, St. Valere de Bulstrode, Que., is offering 60c. on the dollar.

Temple & Bolton, general merchants, Napinka, Man., have assigned to S. A. D. Bertrand.

PARTNERSHIPS FORMED AND DISSOLVED.

Duval & Pelly, machinists, Montreal, have dissolved.

Straith & Manning, general merchants, Harrow, Ont., have dissolved.

Fair & Fife, general merchants, Watson's Corners, Ont., have dissolved, and have been succeeded by Fair & Nairn.

Copartnership has been registered by Josephine Johnson only, under the style of Johnson & Co., general merchants, Port Hastings, N.S.

Copartnership has been registered by J. F. Milberry only, under the style of Stone & Milberry, general merchants, Digby, N.S.

SALES MADE AND PENDING.

A. W. Drysdale, general merchant, Waverley, N.S., has sold out.

George Pomeroy, hardware dealer, Montreal, is selling out by auction.

A. Des Brisay, general merchant, Wolseley, N.W.T., is advertising his business for sale.

John Johnson, harness dealer, Stonewall and Balmoral, Man., has sold his Balmoral branch to John Cook.

The book debts, etc., of the estate of L. E. Hart, general merchant, Guysboro, N.S., are advertised for sale by tender.

The stock of Oct. Beaudet, general merchant, St. Pierre les Becquets, Que., has been sold at 54¼c. on the dollar.

Tenders for the business of Emile Leblanc, general merchant, St. Jean L' Evangeliste, Que., have been called for April 15.

CHANGES.

Lactame Levesque general merchant, St. Pacome, Que., has closed up his business.

A. & W. Johnston, general merchants,

Orangeville, Ont., have sold out to Claxton & Son.

Hartford & Co., general merchants, Neepawa, Man., have been succeeded by R. J. Hooper.

R. Williams is starting as harnessmaker in Roland, Man.

Joseph B. Perry, tinsmith, Victoria, B.C., is giving up business.

The Standard Mica Co., Limited, of Toronto, has been incorporated.

R. G. Wellwood, harness dealer, Plumas, Man., has sold out to A. Madill.

Wm. Currie has registered as proprietor of the Montreal Metal Roofing Co.

James Crossman, blacksmith, Georgetown, Ont., has been succeeded by T. Galbraith.

J. H. Ruddell, harness dealer, Morden, Man., will be succeeded by Jickling Bros. on May 15.

Kirkpatrick & Co., general merchants, Lefroy, Ont., have been succeeded by E. B. Hill & Co.

Smith & Hunt, general merchants, Dorchester Station, have been succeeded by Hicks & Hunt.

Connell Bros. are seeking incorporation as ironfounders and general merchants in Woodstock, N.B.

The capital stock of the Crow's Nest Pass Coal Co., Limited, Fernie, B.C., has been increased to \$2,000,000.

The Canadian Rand Drill Co., Sherbrooke, Que., are applying to increase their capital stock to \$50,000.

FIRES.

J. W. Downer, dealer in agricultural implements, Petrolea, Ont., has suffered loss by fire.

Green, Marshall & Co., general merchants, Orangeville, Ont., has suffered loss by fire and water.

DEATHS.

Robert M. Levine, of Levine & Co., general merchants, Fox River, Que., is dead.

H. J. White, secretary-treasurer of The George White & Sons Co., Limited, manufacturers of engines and boilers, London, Ont., is dead.

KINGSTON BOARD OF TRADE.

The annual meeting of the Board of Trade of Kingston was held on Tuesday, when these officers were unanimously selected: President, E. J. B. Pense, proprietor of The Whig; vice-presidents, John McKelvey, G. E. Hague. Council—James Minnes, R. J. Carson, A. Chadwick, G. Richardson, W. B. Dalton, John Hewton, C. Livingston, James Redden, John Gaskin, D. E. Starr; secretary-treasurer, F. E. King.

A FORTUNE IN GOOD MANNERS.

A POOR curate saw a crowd of rough boys and men laughing and making fun of two aged spinsters dressed in antiquated costume. The ladies were embarrassed and did not dare enter the church. The curate pushed through the crowd, conducted them up the central aisle, and gave them choice seats, amid the titter of the congregation. These old ladies at their death left the gentle curate a large fortune, although strangers to him.

"Why did our friend never succeed in business?" asked a man returning to New York after years of absence. "He had sufficient capital, a thorough knowledge of his business, and exceptional shrewdness and sagacity." "He was sour and morose," was the reply. "He always suspected his employes of cheating him, and was discourteous to his customers. Hence, no man ever put good will or energy into work done for him, and his patrons went to shops where they were sure of civility."

Bad manners often neutralize even honesty, industry, and the greatest energy; while agreeable manners win in spite of other defects. Take two men, possessing equal advantages in every other respect; but let one be gentlemanly, kind, obliging, and conciliating, the other disobliging, rude, harsh, and insolent, and the one will become rich while the other will starve.

"Thank you, my dear; please call again," spoken to a little beggar-girl, who bought a pennyworth of snuff, proved a profitable advertisement and made Lundy Foote a millionaire.

Practice on the stage or lecture platform does not always eradicate shyness. David Garrick, the great actor, was once summoned to testify in court; and, though he had acted for thirty years with marked self-possession, he was so confused and embarrassed that the judge dismissed him. John B. Gough said that he could not rid himself of his early diffidence and shrinking from public notice. He said that he never went on the platform without fear and trembling, and would often be covered with cold perspiration.

There are many worthy people who are brave on the street, and would walk up to a cannon's mouth in battle, but who are cowards in the drawing-room, and dare not express an opinion in the social circle,—Pushing to the Front.

ADVANCE IN STAMPED WARE, ETC.

An advance of from 10 to 12½ per cent. has been made this week by the manufacturers of stamped ware; coppered goods, such as boilers, tea kettles and tea pots; galvanized pails, pieced tinware, nickle-plated goods, coal hods and other lines. The new discount on stamped ware is 80 per cent. It was formerly 80, 10 and 10. per cent.

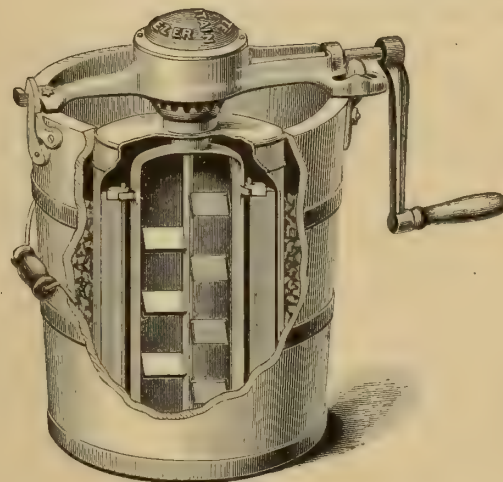
EVERY GOOD THING

PERTAINING TO

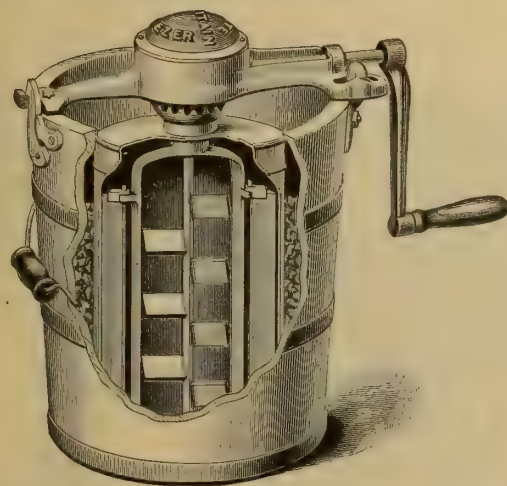
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N.H., U.S.A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, April 14, 1899.

HARDWARE.

WHOLESALERS are fairly busy, though the movement of merchandise is interfered with on account of the bad country roads. Still, demand by mail is satisfactory, and a first-class spring trade seems assured. The general firmness is quite marked, and further advances have transpired since last report. Barbed wire is 5 to 10c. up, and a new list has been issued on smooth steel wire, which calls for a material rise. Wire nails are stiffer when the negotiation involves a small quantity, while cut nails have jumped 20c. as a result of last week's meeting of makers. Horseshoes are higher all round, prices being arranged differently. Tacks are higher also, and the same can be said of bolts, and rivets and burrs. Rope still points upwards, and the general tendency of values is distinctly upwards.

BARBED WIRE—Trade continues quiet, but prices are firmer at \$2.75 to \$2.80 f.o.b. Montreal, according to quantity.

SMOOTH STEEL WIRE—A new list was issued on April 7, and the base price has been advanced 5c. to \$2.50 for Nos. 6 to 9. Demand continues quiet.

FINE STEEL WIRE—No change to report, the list of March 21 being maintained, with discounts the same, 25 per cent. off list.

FENCE STAPLES—Continue steady, and we quote galvanized \$3.15, and bright, \$2.75, with the usual terms. Inquiry is moderate.

OTHER STAPLES—Unchanged. Cooper and poultry netting 15 per cent.; electrical, broom, bed, etc., 10 per cent.

WIRE NAILS—Business is quiet in these, but somewhat higher prices are asked for small lots, and we quote the range this week \$2.50 to \$2.60 as to quantity.

CUT NAILS—Values on these are 20c. higher, the base price now being \$2.05 f.o.b. Montreal, Toronto, Hamilton, London, and St. John, N.B., with the usual rebate of 5c. allowed to regular merchants. The movement is a quiet one.

ESCUTCHEON PINS—Unchanged. Brass 60 per cent. and steel 45 per cent.

PRESSED SPIKES—The same applies to these. Discounts 40 per cent.

GALVANIZED ROOFING NAILS—Quiet; best price 8c. per lb. with 25 per cent. discount.

HORSESHOES—Prices are firmly held as follows: Iron horseshoes, light and medium pattern, No. 2 and larger \$3.25; No. 1 and smaller, \$3.50; snow shoes, No. 2 and larger \$3.50; No. 1 and smaller, \$3.75; XL steel shoes, new light pattern, No. 2 and larger, \$3.50; No. 1 and smaller, \$3.75; featherweight, all sizes, Nos. 0 to 4, \$4.75; and toe weight steel shoes, all forward, all sizes \$5.75 f.o.b., Montreal, Toronto, Hamilton, London and Guelph 10c. extra per 100 lb.

HORSE NAILS—Moderate inquiry and discounts unchanged. Standard brands 50 per cent., and Acadian 50 and 20 per cent.

TACKS—Values on these are higher all round, as a result of the makers' meeting last week. Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED CARPET TACKS—These

Wickless BLUE FLAME Oil Stoves

BURN COAL OIL

DESCRIPTION.—They have no wick, and are thus easily kept clean.

The Oil Tank is made of polished brass and is placed at the back of stove, away from any heat. It is of a telescopic pattern, and has an automatic valve which admits only the required amount of oil to the stove at a time. The removable inner tank can be carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.



NO. 04—2 BURNERS, HIGH FRAME.

Mounted on Casters.

Height, 27 inches. Size of top, 17x25 inches. Weight, crated, 40 pounds.

The Valves are of a material that cannot corrode, thus insuring permanent control of the stove.

Our Patent Sight Feed is a revelation, being a wonderfully simple arrangement for measuring and supplying just sufficient oil to suit the user. It always has in readiness, just enough oil (by measure) to start the burner.

To Light the Stove—Open the small valve below the sight feed to let the measured oil into the burner; then close it, light the burner, and at the same time turn on whatever amount of oil you wish. The stove is instantly started and no further attention is necessary.

The Oil thus started, burns with a clear blue flame, **without smoke**, and gives a heat of the greatest intensity.

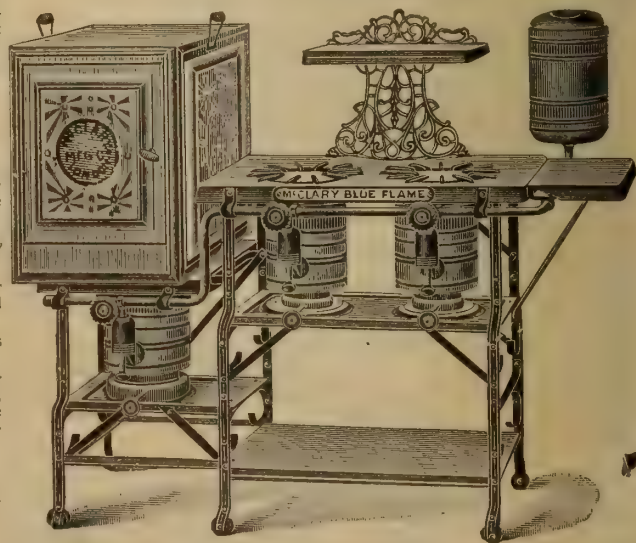
The Steel Frame is strong, and is handsomely striped with gold.

It Makes No Difference whether the oil is good or bad, heavy or light, thick or thin, hot or cold, the stove works equally well, producing an intensely hot, smokeless, blue flame.

Turn on the Oil. Touch a Match.
The Burner Does the Rest.
Cooks Instantly. No Delays.

Special list on application.

When you want your goods quickly, order from McClarys.



NO. 06—3 BURNERS, WITH STEP.

Mounted on Casters.

With Ornamental Back Shelf and Broad End Shelf.
13-inch burner under step.

Height, 27 inches. Size of top, 17x25 inches. Size of step, 14½x17 inches. Weight crated, 65 pounds.

THE McCLARY MFG. CO.

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



If a sheet or half-sheet of Apollo galvanized iron has any fault, no matter how slight, send it back to your jobber at his expense.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Manufacturers of Limited

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que. Three Rivers.
Lac a lac Tortue. Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

also are 5 per cent. higher : In dozens, 85 and 25 per cent.; in bulk, 10 per cent.

SCREWS—Firmly held at the rise. We quote as follows : Flat head, bright, 82½ and 5 discount ; round head do., 75 and 5 ; flat head, brass, 75 and 5 ; round head do., 67½ and 5.

BOLTS—There has been an advance of about 15 per cent. in bolts, and we now quote discounts : Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—There has been a rise of 5 per cent. in black and tinned rivets, the discount now being 55 per cent.; black and tinned burrs are unchanged at 50 per cent.

CORDAGE—The cordage market rules very firm, and sisal rope is ¼c. higher at 10¼c. for 7-16 and larger ; manila is firm at 10¼c.

SHOT—Quiet and steady : 6c. for ordinary, and 6½c. for chilled.

CEMENT—There has been a moderate inquiry for forward delivery. We quote : Belgian, \$1.90 to \$2.10 ; English, \$2.30 to \$2.40 ; and German, \$2.45 to \$2.65 per cask ex wharf.

FIREBRICKS—In fair inquiry, with prices firm at \$19 to \$26 ex store and \$17 to \$23 ex wharf.

METALS.

The steady feeling is generally maintained in metals. No special change is recorded in iron prices at primary centres, but copper, tin, lead, and spelter are all firmer on outside markets.

PIG IRON—The strong tone of the pig iron market is fully maintained, no Scotch pig being obtainable under \$21, while No. 1 Hamilton is firm at \$17 to \$18, with little or none to be had.

BAR IRON—Values on this staple line have advanced 10c. all round, the base price for small lots being \$1.70, with car lots 5c. less.

HOOP IRON—Strong and higher, sales from first hands being noted at \$2.65 to \$2.70.

STEEL—Values continue to stiffen ; tire and sleighshoe steel being 10c. higher, at \$2.35, a similar rise being noted in toe calk at \$2.85. Machinery steel is firm also at \$2.25 base.

GALVANIZED IRON—Inquiry is active for this line on import account. Values continue to stiffen, being 10 to 25c. higher this week, at \$4.75 to \$5 for No. 28 "Queen's Head," with "Comet" \$4.35 to \$4.55.

INGOT COPPER—Values outside are stronger, being 25 to 50c. higher at New York and 15 shillings in London. On spot we quote prices stiff at 19c.

SHEET COPPER—In fair inquiry and

— FOR —

Sheet Steel

of all kinds

Write

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS NO SCREWS
JUST BORE FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Junia," "Queen's Head"
and, "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box.

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

1C and 1X 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASCOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

firmly held at 25c. for plain and 27c. for tinned.

INGOT TIN—There has been a sharp rise in this metal on outside markets, prices in London being £4 7s. 6d. up, and in New York from 50c. to \$1.00. As a result, spot prices have jumped several cents per lb. and no Lamb and Flag tin is now available under 29c.

PIG LEAD—Firmly held at 4½ to 4¾c.

LEAD PIPE—Firm. Ordinary, 7c., and composition waste 7½c. with discounts 17½ per cent.

IRON PIPE—Stiff, and higher prices are expected. We quote as follows: Black pipe, ¼-inch, \$2.90; ⅜-inch, \$2.90; ½-inch, \$2.75; ¾-inch, \$3.10; 1-inch, \$4.40; 1¼-inch, \$5.90; 1½-inch, \$7.15, and 2-inch, \$9.70. Galvanized pipe, ⅜-inch, \$5.55; ½-inch, \$5.90; ¾-inch, \$6.55; 1-inch, \$8.95; 1¼-inch, \$12.40; 1½-inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATES—Continue firm. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—Demand for import fair. We quote as follows: Coke, I. C., \$3.25; charcoal, I. C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Stiff, with business quiet at \$6.25.

COIL CHAIN—Quiet, but firm. We quote: No. 6, 9¾c.; No. 5, 8¼c.; No. 4, 7½c., and No. 3, 6½c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ⅝, \$3.25; ¾, \$3.15, and ⅞, \$3.00 per 100 lb.

SHEET ZINC—Stiff at 8 to 8¼c.

ANTIMONY—Steady at 10 to 11c.

SPELTER—Values show a rising tendency outside, but spot prices are unchanged. We quote: V.M. \$6.75, and S.S. \$6.50.

GLASS.

Firm. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Makers report a rather quiet week, the cause being generally attributed to the unfavorable weather prevailing. Linseed oil has experienced an advance of 2c. in response to firmer markets in England, and our quotation is amended accordingly. Turpentine is somewhat easier in the south, but on account of extreme scarcity the spot quotation remains unaltered, the arrivals not being sufficient to meet the wants of the trade. White lead is somewhat scarce, and

we hear of arrivals coming in via winter ports.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½c.; in oil, pure, 8c.; No. 1, 6½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Linseed oil has been marked up 2c. per gallon.

Horseshoes have been advanced all round.

Bar iron has been advanced 15 to 20c. per 100 lb.

Cut nails are 20c. per keg higher than they were last week.

Sisal rope is firm and higher this week, and still points upwards.

The new list on tacks calls for a sharp rise, as noted elsewhere.

A new list has been issued on smooth steel wire, and the base is 5c. up.

ONTARIO MARKETS.

TORONTO, April 14, 1899.

HARDWARE.

THE feature of the hardware trade during the past week has been the advance in prices in several lines, namely: Horseshoes, bolts and nuts, nails, rivets, spades and shovels, stamped ware, pressed ware, coppered goods, galvanized

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
MONTREAL



FOR

**Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps**

Everything in the stamp line.

SEND TO THE

**Hamilton Stamp & Stencil
DATER. 25c. Works, Hamilton, Ont.**

Steel Tray Wheelbarrows

**Tubular
Meaford (Columbus)
Railroad or Navvy**

With Steel Trays (Pan American).

Eastern Agent—

ALEXANDER GIBB

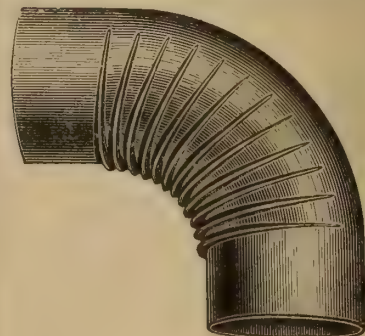
22 St. John Street, - - MONTREAL.

**Meaford Wheelbarrow Works
CLELAND BROS. & CO.**

E. T. Wright & Co.

Manufacturers and sole owners

**SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.**



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

buckets, coal hods, nickle-plated goods, coppered rivets and burrs, cut nails, loaded shells, flour barrel nails, coopers' nails, etc. There have been two advances in cut nails since last week, making in all an appreciation of 20c. per keg. The hardware trade, generally, is active. Wire nails are unchanged, and the demand for them is only fair. Wire is quiet. Horseshoes are meeting with a fair demand, but horse nails are quiet. Screws continue in active demand at firm prices. Rope is meeting with a fair demand. A good business is being done in churns and wringers. Trade is steady in building paper. Enameled ware is in fairly good demand, and an active business is being done in tinware. Ordinary stoves are going out fairly well, but there is not much being done yet in oil and gas stoves. The Canadian manufacturers of locks have issued a new list on their goods, but the discount remains as before. Cutlery and sporting goods are in fair demand.

BARBED WIRE—There is not much being done, but prices continue firm and unchanged. We still quote f.o.b. Toronto: Barbed wire, \$2.75 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.75. Staples are quoted at \$3 for galvanized, and \$2.75 for bright. Terms, 2 per cent. off 10 days.

SMOOTH STEEL WIRE—A new list has been issued on smooth steel wire, and the base price has been advanced to \$2.50 per 100 lb. f. o. b. factory points. The list of extras is as follows: Nos. 2 to 5, advance 7c. per 100 lb.; Nos. 6 to 9, base; No. 10, advance 7c.; No. 11, 14c.; No. 12, 20c.; No. 13, 35c.; No. 14, 47c.; No. 15, 60c.; No. 16, 75c. Extras net per 100 lb.: Coppered wire, 60c.; tinned wire, \$2; oiling, 10c.; special hay-baling wire, 30c.; spring wire, \$1; best steel wire, 75c.; bright soft drawn, 15c.; in 50 and 100-lb. bundles net, 10c.; in 25-lb. bundles net, 15c.; packed in casks or cases, 15c.; bagging or papering, 10c. There is not much business being done.

FINE STEEL WIRE—No change has been made in this line, the discount still being 25 per cent. f.o.b. factory points. Business in this line is also quiet.

WIRE NAILS—The price has been fairly maintained, but there has been no further advance, and we still quote \$2.55 Toronto and west, and \$2.50 east of Toronto. The volume of business is fair, although not what might be termed active.

CUT NAILS—Since our last issue there have been two advances of 10c. each in the price of cut nails, the base price now being \$2.05 f. o. b. Toronto, Hamilton and London, with the usual 5c. per keg rebate.

HORSE NAILS—Business is quiet and prices unchanged. We quote: Standard,

THE PERFECT SECURITY

From damage by lightning and the protection from fire are two leading advantages offered by

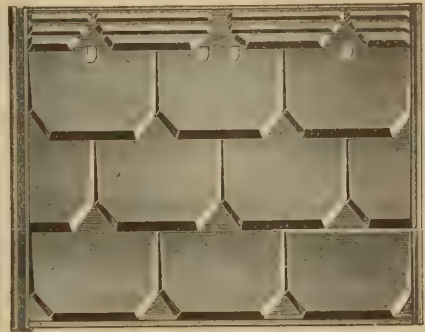
EASTLAKE SHINGLES

Galvanized or Painted

In addition—they can be laid quicker than any other, because of their perfect-fitting patent side-lock (no other shingle has it).

They are more economical, because they are more durable than others—giving a fine finish and reliable protection always.

If you aren't handling them, write for full information—they're in demand.



THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—There has been quite an advance in these during the past week, and we now quote f.o.b. Toronto, Hamilton, London and Guelph as follows: No. 1 and larger, light, medium and heavy iron shoes, \$2.35; snow shoes, \$3.60; light steel shoes, \$3.60; feather-weight shoes, all sizes, \$4.85. No. 1 and smaller, light, medium and heavy iron shoes, \$3.60 per keg; iron snow shoes, \$3.85; light steel shoes, \$3.85; feather-weight steel shoes, all sizes, \$4.85; toe weight, steel, is quoted at \$5.85 f.o.b. Toronto, Hamilton, London and Guelph.

SCREWS—There has been no further change in prices, but business continues good. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—For the second time in a little over one month, the price of bolts and nuts has again advanced, and we now quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—The feature in this line is a reduction in the discount on copper

rivets to 35 per cent. It was formerly 37½.

Business in rivets and burrs is fair. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Business in rope is steady. We quote: Sisal, 7-16 in. and larger, 10c. per lb.; ¾ in., 10½c.; ¼ and 5-16 in., 11c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. New Zealand rope has been advanced to 9½c. per lb. Other quotations are: Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—These are going out pretty lively, and prices are unchanged. No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

WRINGERS—There is a good trade being done. The discount is 45 per cent. Lists will be furnished on application.

BUILDING PAPER—The volume of business is fairly good in building paper, and a fairly good trade is to be noted in carpet felt. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

WARE—Trade is fairly good in enameled ware. The tendency of prices is upwards, and it is quite possible that an advance will take place before many days. Tinware is in brisk demand, although the season is practically over for sap buckets. As will

be noticed on our editorial pages, there have been advances in some lines of tin-ware.

STOVES—There have been some stoves moving during the past week, and customers are showing an active desire to place orders. In gas and oil stoves, the season has scarcely opened yet.

GREEN WIRE CLOTH—The demand keeps good at \$1.20 per 100 square feet.

POULTRY NETTING—Is still going out well at the discount of 50 and 5 per cent.

MILK CAN TRIMMINGS—Only a few sets are moving, but prices are firm at the discount of 25 and 10 per cent.

EAVETROUGHS—Shipments are still being forwarded and prices are unchanged. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS, ETC.—The makers have advanced their prices on spades and shovels \$1 per doz., and on scoops, \$1.50 per doz. The discount to the retail trade has been reduced, now being 40 and 5 per cent. instead of 40 and 10 per cent.

TACKS—As noticed in our editorial columns, an advance has taken place in nearly every line.

CEMENT—The demand is improving. Prices are firm. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

There is a fair trade being done, and what changes have taken place in prices have been upwards. Pig tin has been advanced 1c. per lb., and solder by a small amount. Iron pipe is firmer. In other lines quotations are much about as before.

PIG IRON—The market is very strong, although there does not appear to be any further appreciation in values. The most interesting feature in connection with the pig iron market is the statement that a blast furnace of 200 tons capacity is to be started in Toronto. Another interesting item in connection with this line is the fact that the new charcoal blast furnace at Deseronto, Ont., has received a small order for shipment to Great Britain.

BAR IRON—There is a fair trade being done and prices are unchanged, the base price still being \$1.70 from stock and \$1.60 to \$1.65 from factory.

BLACK SHEETS—There is a moderate demand and prices are unchanged. We still quote 28 gauge at \$2.85 per 100 lb.

GALVANIZED IRON—There is a good business being done, both from stock and on import account. Quite a few shipments

of galvanized iron are being made. There is very little being done at the moment in American iron, as the price is so very high. Importers say that to lay down fresh lots of American galvanized now would mean that they would not be able to sell to the retailer at less than \$4.80 to \$4.90. The latter kind of iron is really dearer in the United States than it is in England at the moment. Through a mistake in last week's market report, it was stated that "Queen's Head" brand was \$4.90 per 100 lb. It should have been \$4.75, as in the prices current. In case lots we quote the different brands, 28 gauge, as follows: "Queen's Head," \$4.75; American, \$4.50, and "Gordon Crown," \$4.50.

COPPER—There is a good demand for ingot, sheet and braziers' copper at unchanged prices. The London, Eng., market is slightly lower, and the high prices are checking business more or less outside of European speculative circles. Ingot copper is unchanged on the local market at 18¾ to 19¼c., and sheet copper at 23 to 23½c.

PIG TIN—Local wholesalers have advanced their prices 1c. per lb., now quoting 29c. for Lamb and Flag, and 28 to 28½c. for Straits. The demand is good. On Tuesday the London market took an easier turn, there being a sharp reaction in prices, and in New York there is no regularity of prices at the moment.

TINPLATES—There is a good demand from stock, and import orders are still being placed. Jobbers have a good many orders for shipment at the opening of navigation.

CANADA PLATES—Business from stock is quiet, but a good many orders are being booked for import. Prices are unchanged. We quote: All dull, \$2.50 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

PIG LEAD—There has been no change in prices locally, and the outside markets rule fairly steady, but there is not much business being done anywhere.

LEAD PIPE—Business is fair. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

IRON PIPE—The market is decidedly firm. Jobbers' quotations are, however, practically as they were, although the manufacturers are quoting higher prices. The negotiations which are being carried on in the United States between the manufacturers there for the purpose of consolidating the different concerns are said to be almost completed. This has tended to give the market a firmer tone, manufacturers over there having dropped one of the tens in the discounts. We quote: Wrought pipe—¼, ⅜ and ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch, \$4.50; 1¼ inch, \$6; 1½ inch, \$7.40; 2 inch, \$9.90; larger sizes 70

per cent. discount. Galvanized pipe: ¼, ⅜ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—Trade keeps fair and prices are firm and unchanged. We quote as follows: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

TINNED IRON—This line is still active and prices unchanged. We quote: 30 x 72, up to 24 gauge, at 6¼ to 6¾c.

COIL CHAIN—The manufacturers of coil chain in the United States have, this week, advanced their prices another ¼c. per lb. Local business is quiet and without special feature. We quote as before: ¼ in., \$6.50; 5-16 in., \$4; ¾ in., \$3.60; 7-16 in., \$3.40; ½ in., \$2.35; ⅝ in., \$3.15; ¾ in., \$3.05.

SHEET ZINC—There is a little more doing in this line, but prices are firm and unchanged. We quote 8c. for lots, and 8¼c. for part casks.

SPELTER—Prices in the United States are firmer than they were a week ago, but locally there is no change to note, the ruling quotations still being 7¼ to 7½c. per lb.

SOLDER—Prices have advanced, and we now quote 1c. per lb. higher than a week ago: Half and half, 17¾ to 18¼c.; refined, 17¼ to 17¾c.; wiping, 16 to 16½c. per lb.

ANTIMONY—There has been a little better demand during the past week, and we quote at 11 to 11½c. per lb.

PAINTS AND OILS.

When the representatives of wholesale houses visited the retail trade early in the year, the latter stocked heavily, and, as the backward spring has retarded consumption, repeat orders have not been as large as usual at this season. Some houses are recovering from the lull caused by this circumstance; others are just in the midst of it. There seems to be a general reluctance on the part of the trade to buy turpentine in quantities, but, as stocks in retailers' hands are light, there are numerous orders for 5 to 10 gal. lots. The feeling in the South has strengthened lately. All other staples are firm and unchanged in price. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in

casks, \$7 to \$7.25; Lehigh, in casks, \$5 to \$5.25.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; 55c. per 100 lb. in 5-barrel lots. Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 67c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

There have been no early arrivals of glass for sorting up reported yet, but some are expected shortly. There is a good demand, and shortage is becoming more pronounced. There is no change in prices. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

Scrap lead is $\frac{1}{4}$ c. cheaper. Otherwise prices are unchanged. The demand is brisk throughout. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No 1 wrought scrap, 42 $\frac{1}{2}$ c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2 $\frac{1}{2}$ c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL

HIDES—The feeling continues easy. We quote cowhides as follows: No. 1, 8 $\frac{1}{4}$ c.; No. 2, 7 $\frac{1}{4}$ c.; No. 3, 6 $\frac{1}{4}$ c.; Steer hides are worth $\frac{1}{2}$ c. more. Cured hides are worth 8 $\frac{3}{4}$ c.

SKINS—Receipts continue heavy. Prices are unchanged. We quote as follows: No. 1 veal, 8-lb. and up, 10c. per lb.; No.

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.

5 Factories.

5 Brands.

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass**. Also of a durable, highly-polished material called "**MARBLETT**," suitable for Advertising Tablets, Signs, Facias, Direct on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

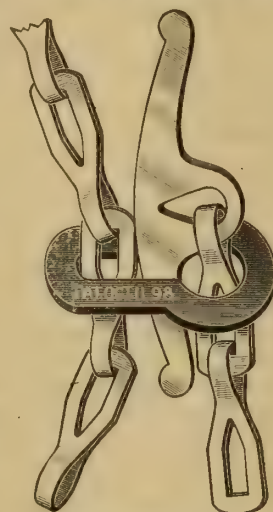
Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899)



which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.

**Ring easily ADJUSTED until
Toggle is in place, then absolutely STATIONARY.**

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.

2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins and lambskins are steady at 90c. to \$1.

WOOL—The market is easy, with a decline of 1c. in the price of fleece which is now quoted at 13 to 14c. and unwashed at 8 to 8 $\frac{1}{2}$ c.

SEEDS.

Receipts of both red clover and alsike are diminishing. Red clover is steady at \$3 to \$3.50, on board at outside points. Alsike is dull at \$2.50 to \$4. From 15 to 25c. more than these prices is paid for extra choice lots.

PETROLEUM.

A good business is reported. Prices are unchanged. We quote in barrels at Toronto: Canadian, 13 $\frac{1}{2}$ c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15 $\frac{1}{2}$ c.; American water white, 16 $\frac{1}{2}$ c.; Pratt's astral, 18c.

COAL.

The demand is moderate, hence orders are more promptly filled. We quote anthracite at Buffalo and bridges as follows: Nut, \$4.75 per gross ton, or \$4.24 per net ton;

egg and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

Scrap lead has declined $\frac{1}{4}$ c.

Pig tin and solder are quoted 1c. per lb. dearer.

Tacks, bolts, nuts and copper rivets are all higher.

Cut nails have been advanced to \$2.05 per keg Toronto.

The prices on stamped and piece ware have been advanced.

Meakins & Co., Montreal, report business brisk in all their lines.

The discount on spades, shovels and scoops has been reduced to 40 and 5 per cent.

The base price of smooth wire is 5c. dearer, at \$2.50 per 100 lb. f.o.b. factory points.

The Syracuse Smelting Works are heavy buyers of scrap copper, and anyone having this metal for sale will be quoted best prices by return mail.

MANITOBA MARKETS.

WINNIPEG, April 10, 1899.

BUSINESS just now is somewhat quieter. Travelers have returned from outside trips and the bulk of the spring orders have been shipped. A few changes in prices have occurred which have been duly noted in the price list, which is corrected to date.

Building is very active, or, more properly speaking, preparations to build. Most of the large buildings erected this year will be on the sites of buildings that are historic, as far as Winnipeg is concerned.

Price list of the week is as follows :

Barbed wire, 100 lb.	\$3 25
Plain twist	3 25
Staples	3 75
Oiled annealed wire.	2 90
"	11
"	12
"	13
"	14
"	15
Wire nails, 30 to 60 dy, keg.	3 00
" 16 and 20	3 05
" 10	3 10
" 8	3 15
" 6	3 20
" 4	3 40
" 3	3 65
Cut nails, 50 and 60 dy.	2 40
" 20 to 40	2 45
" 10 to 16	2 50
" 8	2 55
" 6	2 60
" 4	2 85
" 3	3 10
" 3 fine	3 40
Horse nails, 45 per cent. discount.	
Horseshoes, iron, light, medium and heavy, keg.	4 00
Snow shoes	4 25
Steel, light.	4 00
" extra light	5 75
Bar and band iron, \$2.10 basis.	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 00
14 to 26 gauge.	3 25
28 gauge.	3 60
Galvanized American, 16 gauge.	4 00
18 to 22 gauge	4 25
24 gauge.	4 50
26 gauge.	4 75
28 gauge.	5 00
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	13 00
Ingot tin.	29
Canada plate, 18 x 21 and 18 x 24.	3 10
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots.	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black, 1/4 inch.	2 75
" 3/4 inch.	3 00
" 1/2 inch.	3 75
" 3/4 inch.	4 25
" 1 inch.	5 75
" 1 1/4 inch.	7 75
" 1 1/2 inch.	9 50
" 2 inch.	12 50
" Over 2 inch.	70 p.c.
Rope, sisal, 7-16 and larger.	10 05
" 3/4	11 00
" 1/2 and 5-16	11 50
Manila, 7-16 and larger	12 00
" 3/4	12 50
" 1/2 and 5-16	12 50
Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	.80, 10 and 5 p.c.
Round "	75 p.c.
Flat " brass	77 1/2 p.c.
Round "	70 p.c.

Bolts, carriage	55	p.c.
Machine	60	p.c.
Tire	55	p.c.
Sleigh shoe	65	p.c.
Rivets, iron	50	p.c.
Copper, No. 8, lb.	32 1/2	c.
Spades and shovels	40	p.c.
Harvest tools	.60 to 60	10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50	
No. 1	1 50	
No. 2	1 25	
Octagon extra	1 65	
No. 1	1 25	
Linseed oil, raw, per gal.	57	
" boiled	60	
Ammunition, cartridges, Dominion R.F.	50	p.c.
Dominion, C.F., pistol	25	p.c.
" military	15	p.c.
American R.F.	35	p.c.
C.F. pistol	5	p.c.
C.F. military	Net.	
Loaded shells, Robin Hood, M	\$20 00	
Eley's soft, 12 gauge	15 00	
chilled, 12 gauge	16 50	
soft, 10 gauge	20 00	
chilled, 10 gauge	21 00	
American, M.	16 25	
Shot, Ordinary, per 100 lb.	6 50	
Chilled	7 00	
Powder, F.F., keg.	4 75	
F.F.G.	5 00	
Robin Hood	10 00	
Tinware, pressed.	.70 and 30	p.c.
Granite ware, according to quality.	50 to 60	p.c.

THE MERCHANT'S RATING.

By A. O. Kittredge, C.P.A.

THERE are many merchants, both large and small, whose credit ratings are not what they ought to be; at least, they are not what the merchants think they should be. Investigation, however, shows that, in most cases, it not in all, the fault lies with the merchants themselves. One prime cause for the merchant's failure to secure the rating to which he believes he is entitled is the lack of information furnished with reference to his financial condition. Some merchants refuse all information whatever, upon the assumption, apparently, that their resources are so large as to make them independent of credit ratings. Such a position is extremely foolish. The world is prone to accept a man at its own valuation until such time as it has had the opportunity to demonstrate an error. Silence leaves the world to form its own opinion, and at this date it is very apt to conclude that because no statement is made there must be something to conceal. On the other hand, a statement frankly made and demonstrated to be correct carries opinion to the other extreme, and gives the merchant the full measure of credit to which he is justly entitled.

Several points are considered when ratings are established, in addition to capital for present worth. These include the broad questions of business integrity, of general business methods, and of habits with respect to payments. Of two men, equal in all other respects, one discounting his bills and the other habitually paying slowly, the first will have the better rating as to credit, even though the capital ratings of the two are essentially the same.

Merchants formerly bought their goods

in person. They journeyed to the warehouse and factory to make selections, and thus came into direct contact with those of whom they asked credit. Now, purchases are made through intermediaries. The merchant's orders are given to traveling salesmen, or are forwarded by mail or telegraph. The merchant, then, should not overlook the fact that, in the changes which have been made in the methods of conducting business, changes also have necessarily been made in the methods of establishing credit or determining a rating. A signed statement to-day takes the place of the personal interview of a few years ago.

The great commercial agencies that make a business of ratings are only an instrumentality that modern business has found it necessary to employ in order to meet changing conditions. The merchant who does not have the rating to which he thinks he is entitled should commence to remedy the wrong by a careful study of the situation. In the end he will be quite willing to comply with the reasonable requirements of modern jobbers and manufacturers, some of which are here pointed out.

FUTURE IRON SUPPLIES.

"From the national point of view," says The London Statist, "it is not agreeable to find that while 20 years ago we produced 50 per cent. of the world's pig iron, we now furnish less than 25 per cent. America has taken the lead since 1890, and will easily keep it. The following represents the world's output of pig iron in 1898 :

	Tons.
United States	11,774,000
Great Britain	8,031,151
Germany	7,402,717
France	2,000,000
Russia	1,750,000
Austria-Hungary	1,200,000
Belgium	980,000
Sweden	560,000
Spain	300,000
All other countries, say	402,132
Total	35,000,000

On the basis of two tons of ore to one ton of pig, this means a consumption of 70,000,000 tons of iron ore per annum. Is there a supply of ore in sight in the world to permit of an increase in the world's production of pig iron by 25 per cent. ? If not, it is difficult to see how the growing demands for iron and steel are to be met. But, of course, the demands may cease to grow."

A CANADIAN AGENT WANTED.

M. H. Goold & Co., oil refiners, 9 and 11 Oriel street, London, Eng., are manufacturers of a bicycle-lamp oil which, they state, will not, like petroleum, blow or jolt out. This oil has reached a high place in Britain, being recommended by Field-Marshal Lord Roberts and many others. The firm desires to secure a sole agent in Canada. As a good bicycle-lamp oil is in demand in Canada, this article might well be worth securing the agency of.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.


 TRADE MARK

This Mark is a Guarantee
of Quality.

Varnishes
Paints
Colors

of Montreal
SISSONS BROS. & CO. LIMITED
 MANUFACTURERS

HALL'S PATENT

Washable
Water
Paint

This paint is a boon, particularly now that the
house-cleaning season is on. Anyone can use it.
Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade
goods. The best quality of paints
are always the **cheapest**. Our
aim is quality. We use only the best raw
material. Years of experience have taught
us how to make the best goods.

Write for Catalogue and Shade Cards giving full
particulars of our

Mixed Paints Varnishes
 Floor Paints Colors in Oil
 etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

 **MONTREAL.**

IRON TRADE IN THE STATES.

IN its review of the iron situation for the week The Iron Trade Review of April 13, says: "Quietness without weakness is the present condition of the iron market. Since the third week of March there has been no advance in pig iron, and with a few exceptions, prices in finished lines have been at a stand. Yet there is not the slightest sign of abatement of consumption, save only such foreign business as high prices may cut off. Stocks of pig iron continue to diminish, both of Bessemer, foundry and basic irons. Furnaces in the Mahoning and Shenanago valleys shipped 35,000 tons more Bessemer iron than they produced in March. And in foundry iron the enormous consumption is a matter of common knowledge, indications being that it is still growing. In one central western district a canvass indicates that it was about 40 per cent. more in the quarter ending with March, than in the first quarter of 1898; and the first quarter of 1899 showed a 10 per cent. increase over the last quarter of 1898. Over against this is to be set the uncertain amount that will be added to the supply of iron by the various furnaces that are resuming or preparing to resume, less the productive capacity of furnaces that drop out from time to time for repairs.

"The indications still are that the second quarter and the beginning of the third are to show a tightness that may become a scarcity. Some of the furnaces that are to become active in the next three months have sold considerable iron, and there is a steady small-lot trade from the foundries; but at the moment there is a pronounced wait on business looking to the remoter future. For the good of the whole trade this might be prolonged for some weeks.

"Sellers seem to be in a position in which they will not lower prices, unless in the face of developments unexpected, and not now likely; and it is recognized that the situation is one in which no great increase in demand or interruption of supply would result in further advances. Meantime there is no disposition to advance prices, nor is there willingness to pay an advanced price on the present showing. It is simply a healthy, desirable lull.

"After pig iron, finished material is to be considered, for, under the present regime of consolidations completed and consolidations pending, there is little or no market on intermediate material. Indeed, it would seem that billets, sheet bars and rods are now eliminated in large part as market factors. Something still hinges on the outcome of the move for sheet mill amalgamation. The plans of the large concerns, as portions of them have developed, show

signs of harmonious operation, indicating that for the near future, at least, there will be no disposition to contest for trade in certain lines or in certain districts. Stability of values is not threatened from this source, at least; and, as long as there is plenty of business, the question of its distribution will not be serious. It appears that the mills, with all their large outputs, are not gaining on the situation. With all the plate mill capacity now being added in the Pittsburgh district, there is no indication that lower prices will be made for business in the second half. Sheets likewise are very firm, and the same situation appears in bars. The new business placed with the mills in the past week has not been large, but each week's specifications on contracts only emphasize the volume of consumption in all lines."

HOW MR. MALONEY SAVED HIS BACON.

HIS name was Maloney—Mr. Edward Maloney—and he had been with Pirins, the big Irish poplin house in Dublin. His first situation in London was behind the dress goods counter of Garbould, Johnson & Co.

They were red-hot people away back in the sixties, but are now out of the trade. Being behind their dress goods counter was a good deal like our baseball game in this country, "three strikes and out," for, if a new man missed three sales in succession, you were politely sent by the shopwalker into the counting-house to get your pay, which was "three swaps and out." The first morning Mr. Maloney got to work in London, a customer was handed to him by the shopwalker. "Dress goods, Mr. Maloney." She turned out to be a shopper, not a buyer. After procuring samples, she passed out. Mr. Maloney, like other new hands, was under the strict surveillance of the shopwalker. Customer number two was handed our Dublin friend to serve. This proved also a blank. All hands were busy, so Mr. Maloney did not have long to wait for his third customer. He did his very prettiest to sell her a dress. But all in vain. When he found his last chance gone, he remarked to the lady:

"You see the gentleman in the long coat

and big collar walking up and down the floor, madam?"

"Yes, I see him," said the customer.

"Well, should he spake to you as you pass out dont answer him; he has insulted sivaler ladies this mornin' because they didn't buy. Give him a sharp look and pass by quick loike."

The lady left the counter as the shopwalker approached her with his sunny smiling smile to inquire if she had got what she required. The lady gave him a wild, quick glance and passed him by without a word. In a moment she had mingled with the crowd on the sidewalk.

The floorwalker couldn't understand her peculiar manner, so he returned to the dress goods counter. "Mr. Maloney, did you notice anything peculiar about that lady you were serving just now?"

"Well, Mr. Bradshaw, oim thinkin' the poor crater is crazy. She's escaped from an asylum. She behaved like a lunatic."

"I thought so," said Mr. Bradshaw, "for when I went to speak to her she looked as wild as a March hare."

Thus Maloney saved getting the bounce. He turned out an A1 man, became buyer of the dress goods department, and to-day holds a responsible position with a London exporting house.

TOM SWALWELL.

COAL AND IRON ORE IN GREAT BRITAIN.

The production of coal in England last year was 147,811,478 tons; in Scotland, 30,237,295 tons; in Wales, 23,863,506 tons, and in Ireland, 129,965 tons, a total of 202,042,243 tons, as against 202,119,196 tons in 1897.

The production of iron ore was 7,901,046 tons; of fire clay, 2,783,129 tons, and of oil-shale, 2,137,999 tons.

The number of persons employed under the Coal Mines Regulation Act was 706,894, of whom there were 503,910 in England, 92,022 in Scotland, 109,981 in Wales, and 981 in Ireland.

A new chemical engine for the town of Carberry has just been completed by the Brandon Machine Works Company.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade **REVOLVERS**

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

TRADE CHAT.

J. S. LOUGHLAN and Fred. Fisher, of Toronto, arrived last week in Vancouver, where they will increase the staff in the branch warehouse of the Jas. Robertson Co., Limited, Toronto.

An effort is being made to induce the Canadian branch of the Stearns Bicycle Co., now in Toronto, to locate in Brantford, Ont. It is understood the Stearns company intend commencing the manufacture of tools, such as the United States branch makes, and if the firm moves to Brantford its staff will be greatly increased.

A Fredericton, N.B., despatch says: "The rush for gold claims at Cross Creek keeps up and reports of wonderful discoveries in that vicinity reach the city almost every day. The latest alleged find is a gold nugget an inch square, estimated to be worth about \$50. In fact, the finding of gold is such an everyday occurrence that the novelty of the thing is beginning to wear off. About 200 more claims were taken out in one day."

Charles Miles Clark, of Cape Vincent, New York, Herbert Abraham Clark, Ewan Mackenzie, of the Toronto Railway, and Emile Wilhelm Klotz, manufacturers' agent, Toronto, and Edgar Ivan Sifton, of London, Manager of the Electrical Construction Company, of London, have been incorporated as the Standard Mica Company of Toronto, Limited, with a capital of \$90,000.

POWDER AND PROJECTILES.

The amount of powder required to propel cannon projectiles is about half the weight of the projectile. A projectile four inches in diameter weighs 33 lb.; five inches, 50 lb.; six inches, 100 lb.; eight inches, 250 lb.; ten inches, 500 lb.; twelve inches, 850 lb.; thirteen inches, 1,100 lb.; sixteen inches, 2,378 lb.

GOOD ADVERTISING.

The secret of good advertising is merely talking about your goods just as a sensible man would talk to another. This is very hard for some men to learn. When they sit down, with the chewed end of a lead-pencil in their hands, to write an advertisement, all of their common sense seems to forsake them. They go hunting around for word puzzles and idiotic catch lines under the impression that they have got to be clever or bust something. As a matter of fact abnormal cleverness is not very good advertising. Plainness and simple, straightforward statements of just what you have to sell, and what you will sell it for, are always good advertising.

When you have found this out, go after your printers with a club or something that

will have an effect on them, and get them to set up your advertisements as simply as you have written them.—C. A. Bates in Printer's Ink.

BOOK OF FORMULAS STOLEN.

The Syracuse Smelting Works, Montreal, state that a book containing formulas of their babbitt metals, etc., has been stolen from

their office, and they warn all manufacturers that any person making use of any of the formulas will be prosecuted.

PERSONAL MENTION.

Mr. Thomas Dunn, hardware merchant, Vancouver, was in Toronto on Tuesday, en route for Ottawa.

Mr. J. H. Lyons, of The Sidney Shepard Co., Buffalo, was in Toronto on Saturday.



The protecting flap of the G. & J.—Goodrich-made —keeps the spoke heads from the Goodrich Inner Tube. No punctures that way.

The second groove holds the tire firmly to the rim, where the rim is strongest. No explosions. No rolling.

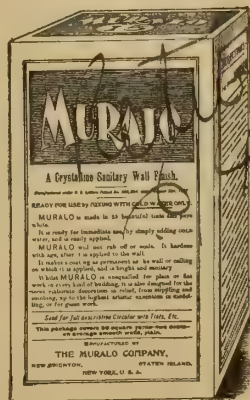
No side slip. The corrugated tread won't let it slip sideways.

Sell 'em. They'll help your reputation.



Get our Booklets.

American Tire Co., Limited,
165 King St. W., Toronto.

RAMSAY'S
MIXED
PAINTSRAMSAY'S
EXTERIOR
LEAD

A. RAMSAY & SON

PAINT
MAKERS

MONTREAL

The Unicorn and Bulldog Mixed Paints are high-class paints at a low price. Any dealer can make money handling paints with a good reputation. Ramsay's Paints have that reputation, and the ever increasing trade is a flattering proof that dealers and consumers are pleased.

Muralo is the only sanitary cementitious wall finish that mixes with cold water or hot.

Muralo can be recoated any number of times.

Muralo will not crack or peel off.

Muralo is absolutely non-poisonous.

Muralo can be applied over paint or varnish.

Muralo tints can be intermixed.

Muralo must not be confounded with any other wall tint. It is superior, brighter, finer ground than any other similar preparation.

Muralo is registered. Dealers are protected.

For exterior work no such excellent lead has ever been offered. We furnish positive guarantee and supply booklets for advertising and testimonials for merit. Do you know about it? Drop us a card.

(15)

RETAILERS AND THE PRICE OF STOVES.

IT is rather surprising to see the state of affairs existing up to date as to prices of stoves. All prices that were in force last week by the New York Association of Manufacturers are withdrawn and a further advance is made in the selling prices of stoves, and, what is more, it is a legitimate and proper advance, and will, perhaps, be more likely to be increased in the future than be reduced. Nothing is so sure as the unexpected, and the present prices that are asked for stoves, and that must and will be paid for them, are not excessive nor extortionate if the state of trade is carefully looked into. No question exists that stoves were sold too low last year, and, in fact, the market has been a falling one for some years back. Of course, stoves were not the only things that were sold too cheap. At the same time, much better prices might have been had for them provided some association of makers, like the present, could have been maintained. Many croakers predict that the makers will not hold together and things will go by the run, but it looks as though they will be badly mistaken, for such cordiality and good feeling has never been seen in New York before.

To be sure, there must be some friction and some misunderstanding must ensue, but the matter has been too well handled and the interests at stake are too important to allow trifles to interfere.

It is probable that stove prices will look very high to dealers when they compare this year's figures with last year's, but if they reflect they will see that stoves were abnormally low then. For example, a stove was sold last fall for \$10, when a reasonable price for it at that time would have been \$12. If the price of that stove was advanced, say 20 per cent. on the \$12 price to cover present costs, it would bring it quite high; but the fact remains that the normal price is what the stove should be advanced upon and not the abnormal. Of one thing we can be assured, that good prices can be had if dealers will demand them and cut off all argument about what they formerly sold for.

As The Metal Worker asked last week: What is the reason the retailers cannot get more for their stoves? or, to be plainer: Why should not the dealers in every town come together and see if a way cannot be devised through which, by cooperation, the desired result can be brought around? No better time could be had to get good prices than the present, as people are looking for high prices. And, no matter how much they may talk about not paying them, yet they will do so when they set out to buy.

The chances are the retailers will see

pretty stiff prices both for stoves and furnaces, and particularly for the latter, as the furnacemen have not put in their fine work yet, and some sharp advances can be looked for in the near future in that line. We doubt if there has been an article that has been so senselessly slaughtered in price as furnaces when is considered all that is involved in the selling, setting and collecting, without counting all the great and small troubles that are apt to follow from the ignorance of the users. Builders put a good profit on their sales, and reaped some benefit from the low prices, but they can just as well pay in the future from \$10 to \$25 more for a furnace and make as good, if not better, profits as they made under low prices. It is much better to look ahead and work for good prices than to search the past for reasons that existed then why they could not be maintained. If the present advances were not in evidence a year ago yet here they are, consequently there is no ground to believe that the old times will soon take the place of the present, and the fact remains that the future may bring us the greatest prosperity we have seen yet. It would appear from the present state of affairs that the retailers everywhere could not make a greater step forward for their financial improvement than by some concerted effort among themselves. Perfection must not be looked for, but a better condition can be evolved than has existed in the past by this course of cooperation.—Metal Worker.

PLACARDS.

Where placards are used in the store—and they are used quite generally—care and judgment must be exercised in wording them, so that they shall be both impressive and expressive, says Stoves and Hardware Reporter. The chief defect in placards often is excessive similarity, because the advertising man, who usually writes them, allows his mind to run too long in the same groove, unhesitatingly employing the same words and phrases over and over again. In this manner, constant repetition loses its effectiveness. It is one of the instances where constant dropping does not wear out the stone, but rather tends to harden it. An oft-repeated phrase soon ceases to be forcible. Like a twice-told tale, it rather vexes and annoys those who contemplate it. Many stores make the mistake of going to this extreme when lauding forth the many good qualities of their wares. They will, for example, use the word "special" on every placard till everybody is surfeited with it. The principal aim and object of these signs is to act as silent salesmen. If they are interesting, original and clever, they may certainly serve as pretty fair substitutes. Indeed, there are instances when they could

be made much more efficacious than the lackadaisical clerks who are frequently both unwilling and unable to impart information. Thus placards may be made more conspicuous and interesting than the comments of some clerks.

BUCKLE MAKING IN BIRMINGHAM.

It seems in these days almost incredible that at the close of the last century the production of shoe buckles in Birmingham was an industry of such magnitude that over 20,000 of the inhabitants of the town were dependent upon it for their daily sustenance, says Hardwareman. Yet so it was, and in 1778 Bilston, which was the first seat of the industry, had fairly succumbed to the overmastering rivalry of Birmingham. The buckles most largely made were from a metal locally known as "Tutania," so-called from one Tutin, the inventor. For the common qualities pinchbeck was used, and a crude form of silver-plate was also employed. The variety of buckles produced was very great. A small buckle for the band of the hat; one a degree larger for the knee; and one largest of all for the shoe, were the leading kinds; each being produced in a multitude of patterns and designs. One popular shoe buckle nearly covered the foot. The price of buckles was as wide in range as the variety of size and design. They ranged from 1s. to £10 10s. per pair, and Birmingham, at one time, practically supplied the requirements of America, Holland, France, Germany, Italy and Spain, in addition to the important home demand. But the industry was one which—unfortunately for itself—depended upon the caprices of "fickle fashion." Before the century closed, the "effeminate shoe string"—as the bucklemakers termed it—had come into popular favor, and an attempt made by the Duke of York to maintain the former fashion signally failed, and so the buckle trade of Birmingham was, with the dawn of the nineteenth century, as "extinct as the dodo."

SITUATION VACANT,

HARDWARE CLERK WANTED. MUST be first-class, sober, tradewinner, and a hustler. State wages. Apply, Graber & Son, Stratford. (15)

SITUATION WANTED.

HARDWARE SALESMAN WISHES POSITION. Young man, seven years' experience, good stockkeeper, bookkeeping, excellent references. (Manitoba or Northwest preferred). Address, Box K, HARDWARE AND METAL, Toronto.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.

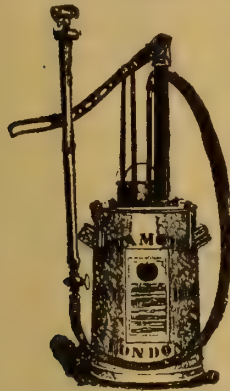
The
**DETECTIVE AND CONFIDENTIAL
AGENCY.**

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies,
Fires, Embezzlements; Lost Friends Located; Legal and
Private Reports; Movements of Employees or Friends.

All Spraying, Disinfecting, and Whitewashing
can be done with THE SPRAMOTOR.



It is the result of most
careful and exhaustive ex-
periment. Each feature was
thoroughly tested before be-
ing placed on the market.

Toronto, Nov. 9, 1898.

Spramotor Company,
London, Ont.

Gentlemen,—The machines
for spraying and whitewash-
ing you have supplied to
Dentonia Park Farm have
done their work well, and
are quite satisfactory. I
could not have believed
there was so much value in
spraying fruit trees. We had
a good crop of apples,
whereas our neighbors, who
used no spraying apparatus,

had practically none. Yours truly,

W. E. H. MASSEY.

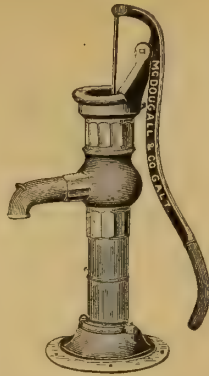
Certificate of Official Award.

This is to certify that at the contest of spraying apparatus,
held at Grimsby, on April 2nd and 3rd, 1898, under the
auspices of the Board of Control of the Fruit Experimental
Stations of Ontario, in which there were eleven contestants,
the SPRAMOTOR, made by the Spramotor Co., of London,
Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we
will send you a 72-page copyrighted catalogue and treatise
on the diseases affecting fruit trees, vegetables, etc., and
their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.



IRON AND
BRASS

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can
supply your wants with
—quality the best and
prices right. Catalogues
and full information for a
request.

THE R. McDOUGALL CO., Limited
Manufacturers, Galt, Canada.

FULL STOCK
DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Enamelled Tins

The
Best Oils and
the prettiest
tins on
the market.

No paper
labels.

Unlike
Petroleum
GOOLD'S
Lamp Oil
does not blow
or jolt out.



GOOLD'S

CYCLE OILS

are recommended by

Field-Marshal Lord Roberts,
etc., etc. V.C., K.P.

AGENCY.

We are open to give the sole buying
agency for Canada to an influential
firm.

GOOLD'S, LIMITED

(17)

Liverpool, England.

Columbus and Earl Bicycles

**STANDARD OF
EXCELLENCE**

M. & W., Search-Light, Queen Lamps
New Departure and Bristol Bells
Veeder Cyclometers, Standard Cyclometers
Eclipse Cements and Oils, 3 in 1 Compound
Brown, Garford and Hunt Saddles.

Our prices are right.
Drop us a card for catalogue.

CAVERHILL, LEARMONT & Co., MONTREAL.

HOW TO GET THE MOST WORK OUT OF A FILE.

IN the series of practical talks on file work, now being prepared for the Arcade File Works, No. 97 Chambers street, New York, the above subject is given considerable attention. We are pleased to make



FIG. 9.

further extracts in advance of its complete publication :

ARTICLE IV.

In selecting a file for any piece of work the form and position of the work surface must determine the shape and size of the file to use. The hardness of the metal and the amount of stock to be removed, together with the quality of the finished surface that is desired will determine the degree of coarseness in the cut of the file used.

If the surface is a flat one, the hand file, the curvature of the sides of which make it best suited to such a surface, or its immediate associations, the flat, mill or pillar files, will be used. The length will depend upon the extent of the surface, files shorter than 8 inches being used only on very light work, and for the heaviest work seldom exceeding 18 inches in length.



FIG. 10.

If the surface is an interior one, as is the case with the walls of of a mortise or key-way, the pillar or square file will usually be used. The pillar file, provided with one safety edge, is best suited to this work when the dimensions of the work will admit of its use. The extra narrow pillar can usually be used in any slot in which a square file of same length can be operated. If the opening is very narrow a warding file may be advantageously used. As this file is very thin and of equal thickness from point to heel, the operator must depend on springing



FIG. 11.

the file enough to give the required curvature for true filing.

In filing square or round holes as large a file as can be freely operated in the open-

ings should be used, and if very small, a slim square or round may be used, which gives the same file length, but smaller cross-section, thus enabling the use of the longest file possible. If the hole is short as compared with the length of the file, the latter may be held at point and handle and still allow enough length for a suitable stroke. When, however, the hole is a long one, the file must be held as shown in in Fig. 9. If the round file is materially smaller in diameter than the hole it is enlarging, as shown

in Fig. 10, it will be difficult to keep the hole even approximately round; but if larger, as shown dotted, better results can be obtained, inasmuch as the arc of contact is very much greater. Ordinarily, work of this kind does not require great circular accuracy.

When the curvature becomes too great to admit the use of the round file, the half round takes its place. With the larger circles it is not possible or even desirable to have the round side of the file fit the curve, but the results required are in such a case obtained by giving the file a side sweep on the forward stroke. Thus, in Fig. 11, when the file is given only a back and forward motion, it is impossible to maintain the smooth curve, but if, as shown in Fig. 12, the file is swept sidewise on its forward motion from A to B, and after every few strokes reversed, so as to give the sweep from B to A, thus causing the file marks to cross each other, true work can be obtained. The file should, as with the hand file, be well curved in its length, so that any portion of the surface may be brought into action. It should be given a slight rotation in the hand as it is pushed forward in order that the same high spot may be cut through the entire stroke.

Although square files are not usually provided with a safety edge, it will frequently be found desirable in using them on fine work to order them with one side safe, or, if the file is in stock, one side can be made safe by grinding off the teeth. Any new file having a safety edge should have the edge passed over an emery wheel or grindstone before depending on it for safety, since in the cutting of the sides the stock is expanded over the edge, making it slightly concave, as shown at A, Fig. 13. Although the points of the teeth do not, in cutting, form out full over the safety edge, the roots do, and are very apt to injure the surface the safety edge is expected to protect. The application of the safety edge is shown in Fig. 14, when it is desired to file the surface A

without injury to B. The figure serves to show the many places in which this edge is of great value, not only in protecting surfaces, but in the saving of time resulting from the smaller amount of care necessary in using the file.

As we have already informed our readers,



FIG. 12.

the book, when complete, will be sent free to any dealer in files, who sends his name and address to the Arcade File Works, No. 97 Chambers street, New York.

RAILWAY CONSTRUCTION FOR 1899.

The Railway Age estimates that the railway construction of the present year will reach 5,000 miles, and, as 4,000 miles is now under construction or contract, the estimate for the present year is most conservative. This construction involves an investment of not less than \$150,000,000. Should the estimate for this year be realized the construction of 1899 will exceed that of the two previous years. Last year the construction was just over 3,000 miles, and in 1897 it was less than 1,900 miles. It was very nearly the same in 1896 and 1895, and a little more, but still under 2,000, in 1894. In 1893 it was



FIG. 13.

2,635, and in 1892, prosperous as that year was, it was only 4,191 miles. The figures in Poor's Manual are made up on a slightly different basis, and give the mileage for 1892 at 4,419, in 1891 at just over 4,000 miles, and in 1890 at 5,329, so that the construction of this year is quite certain to exceed that of any previous year since 1890. This construction looks small compared with the enormous construction of 1882 and 1887, but the building of two or three times as much railroad this year as in any year from 1893 to 1897 means a good deal to the rolling mills which have already found in the foreign demand an important outlet, and which have found in the increasing uses

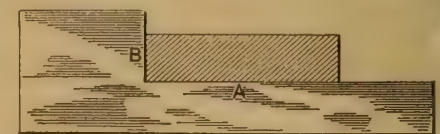


FIG. 14.

to which steel is applied a substitute for the demand upon their energies which used to come from railroad builders.—N. Y. Journal of Commerce.

If you sell Files

you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
any other, send
them back.

The Arcade
Files are the
only files in the
market with Weed's
Improved Patented In-
crement Cut, and are made
in the best equipped file works
in the world. We've been mak-
ing files fifty-seven years and cer-
tainly know how.

THE ARCADE FILE WORKS

ESTABLISHED 1842.

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

WORKS:
Anderson, Ind.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.



HEATING AND PLUMBING

BUILDING ACTIVE IN TORONTO.

THE year 1892 was the last of the "boom years" in Toronto. In March, that year, building permits to the value of \$167,400 were issued. Last year was throughout the busiest year, as far as the issuance of permits is concerned, since 1892. During March last year, \$126,600 of permits were given out. This year the value of permits issued in March was \$151,915, an increase of over \$25,000 compared with the same month last year, which was the busiest since 1892.

This augurs well for the summer's building-operations, but April seems likely to be even more encouraging. During the past week permits for over \$80,000 have been issued, and many of the architects state that they are so busy preparing plans that they do not take their permits out sooner than necessary.

In addition to the permits that have already been taken out, are some large buildings which are to be erected in the near future. The chief of these is the \$1,000,000 hotel which is to be erected on King street at the foot of Victoria street. Plans are also being prepared for a large office building at the corner of Queen and Terauley streets, which is to cost between \$40,000 and \$50,000.

It would seem that this summer will be a busy one for the plumbers. It should also be a paying one. For some time prices have been cut so close that contracts have often been taken at cost, and not infrequently at a loss. This should not be the case this year. There is abundance of work, and it will all have to be done. Why, under such conditions there should be a hasty rush to collar everything even at low prices is strange. To use the words of a large supply dealer "it is the curse of the trade."

To remove this "curse" should be the aim of The Master Plumbers' Association.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to E. J. Shewring for a two-storey residence at 28 Vine street, to cost \$1,400; to Henry Sutherland for a two-storey and attic residence on Harvard street, near Roncesvalles avenue, to cost \$2,500; to Mrs. A. Ward for a pair of semi-detached cottages at 235 and 237 Oak street, to cost \$1,400; to Robert B. Brown for a pair of semi-detached, two-storey dwellings at 1174 and 1176 College street, to cost \$2,000; to W. H. Smith for a two-storey brick store,

corner Argyle and Dundas streets, to cost \$3,000; to W. P. Gundy for a two-storey and attic brick dwelling on Maple avenue, near Sherbourne street, to cost \$4,500; to Mrs. Sarah Barton for a pair of semi-detached brick residences at 837 and 839 Bathurst street, to cost \$5,000; to Gerhard Heintzman & Co. for a four-storey brick addition to their factory at 69-75 Sherbourne street, to cost \$14,000; to The Polson Iron Works Co. for a shipbuilding shed, of wood covered with galvanized iron, at the foot of Frederick street, to cost \$2,000; to R. M. Simpson for a two-storey and attic brick dwelling and stable at Wellesley place, to cost \$10,000; to W. G. Dean for a two-storey and attic brick residence on Jamieson avenue, near Queen street, to cost \$4,500; to Christie, Brown & Co. for a five-storey brick addition and alterations to factory at Duke and Frederick streets, to cost \$25,000; to Mrs. Lizzie Black for a four-storey brick hotel at 39 Yonge street, to cost \$5,000; to Dr. J. T. Duncan for a two-storey and attic dwelling on Fuller street, near Queen, to cost \$5,000; to Harry Ellis for a two-storey and attic office and stable at rear of 327 and 329 College street, to cost \$1,650; to Richard McSarey for a brick foundation to house at 78 Humbert street, to cost \$500; and to W. Murray for a three-storey brick store and dwelling house at 518 Yonge street, near Bredalbane, to cost \$3,200.

LAYING WATER-PIPES IN WINTER.

In the districts in and round New York, and north and west of that city, says Fire and Water, water-pipes have occasionally to be laid in the winter. In some localities the frost has hitherto rendered it impossible to open the ground; in others, to do so is a work of time and difficulty. A means, however, has been found whereby, no matter how solidly the earth is frozen, the

mains may be laid with as great ease as in summer. The agent by which this victory is gained over the frozen soil is steam, and by the new method a certain amount of ground can be opened up every day, and must be finished within that time. This daily stint is laid out to a foot by the engineer, who then causes just that amount of earth to be thawed out during the night. When that has been done the excavation work follows, and the required length of main is laid before the next night comes round—and so on till the whole has been laid.

The method pursued is as follows: A set of perforated 1½-inch pipes are extended from 80 to 100 feet in two parallel lines and covered with a wooden box four inches high, the same width as the trench which is to be opened. There are several 16-foot sections of these pipes, whose joints are covered with earth and other matter, to prevent the escape of the steam—thus making the box continuous. The pipes are supplied with steam from a 12 to 15 horse-power upright boiler or steam generator. The steam is turned on with a pressure varying from 40 to 60 lb., and is forced through the perforated pipes into the frozen ground. Only one man is required to operate the steam generator, and during the night the earth is sufficiently thawed out to the required depth and ready for the excavators to work upon. This process has been found effective when the ground has been frozen hard to a depth of from 3 to 4 feet. The process can also be applied in the case of leaks when the ground is frozen to a great depth. The only requisite is haste. The main must be laid at once and the trench filled up immediately.

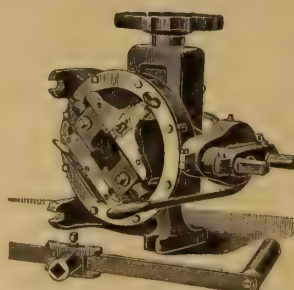
Arrangements have been made for the settling in Canada of 500 or 600 families of Hungarians in the Northwest this year.

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139 Centre Street

Bridgeport, Conn.

TORONTO MASTER PLUMBERS FEAST.

"HERE we are all boys together," said Alex. Saunders, of Goderich, at the annual banquet of the Toronto Master Plumbers, Steam and Hot Water Fitters' Association on Friday evening, April, 5, and the sentiment was so heartily applauded that it may be taken as a fair criterion of the fraternal spirit of fellowship that pervaded the gathering from the beginning of the first course to the end of the last toast.

In the beautiful banquet hall at McConkey's tables had been laid for 90 guests,



PRESIDENT WILSON,
Of the Toronto Association.

and when, at 9 o'clock, the party assembled, less than half a dozen chairs were empty.

The chairman of the evening was James H. Wilson, the genial president of the association.

To his right sat Wm. Smith, of London, president of the National association; W. H. Meredith, Toronto, treasurer of the National association; James Stewart, Hamilton, and Alex. Saunders, Goderich.

On the left of the chairman were W. J. Clark, president, and A. Rogers, of the Hamilton association; W. G. Ritchie, secretary of the Toronto association; F. H. Laigh, secretary, and R. Noble, treasurer, of the London association.

The Toronto supply houses were well represented. The following were noticed: A. McMichael, W. S. Jackson, J. R. Foster, S. Topping and A. Mann, from The James Robertson Co., Limited; John M. Taylor, Adam Taylor and Harry R. Flett, of The Dominion Radiator Manufacturing Co., Limited; C. E. Morrison, Robert A. Morrison, Dundas C. World and E. A. Rogers, of The James Morrison Brass Mfg. Co., Limited; Geo. H. Taylor, of The Gurney-Tilden Co., Limited, Hamilton; F. J. Taylor, of The Gurney Foundry Co., Limited; Jas. D. Ritchie, of The Toronto Steel-Clad Bath and Metal Co., Limited; W. B. Malcolm, of Malcolm & Co.; H. W. Anthes and L. L. Anthes, of the Toronto Foundry Co.; J. I. Matthews and J. R. Spence, of The Ontario Lead and Wire Co., Limited; J. H. Paterson, of The Toronto Hardware Mfg. Co., and John J. Main, of the Polson Iron Works.

As will be noted, the menu was specially

arranged to suit the appetite of a hearty master plumber or supply dealer:

MENU:

Cream a la Princess.

HORS D'OEUVRE.

Lettuce Radishes
 Spanish Olives.

FISH.

Filet de Sole, Plumbers' Style.
Pomme Parisienne.

ENTREES.

Sweetbreads aux Champaigns.
Tenderloin of Beef a la Lead Pipe Cinch.

VEGETABLES.

Pomme Chateau Creamed Corn
Green Peas Salade de Saison.

DESSERT.

Surprise Ices. Assorted Fancy Cakes.
Wafers. Fingers. Meringues.
French Decorated Pastry.
MacLaren's Imperial Cheese.
Black Coffee—Steam Heated.

After full justice had been done to the dinner, the chairman, in a short speech, welcomed all present on behalf of the association, and expressed his pleasure that so many had been able to be present, and also his regrets that some of the guests who had been invited were unable to come. Letters were read from members of the London, Hamilton, Montreal, Westmount, Ottawa and St. Catharines associations, who sent fraternal greetings and regretted their inability to be present.

"The Queen" was then toasted in a royal manner, with "God Save the Queen" and three rousing cheers. For the toast to "The Governor-General," "The Maple Leaf" was sung, and Mr. Joseph Wright was called on to respond. Mr. Wright said little, but it gave "the boys" a chance to express their opinions, which they did to the tune of "He's a Jolly Good Fellow."

The toast to "The National Association" was responded to by President Wm. Smith and Treasurer W. H. Meredith, of the National association. Mr. Smith stated that it gave him pleasure to be present, not only because it was a plumbers' banquet, but because his remembrance of his residence in Toronto when there were but four plumbing shops in the city. The growth of plumbing was well shown by the fact that this number had increased till now there were 97 shops. He could not make any official remarks concerning the association, but hoped to be able to show some results on Saturday afternoon, when he hoped a large gathering of the plumbers would meet to discuss association matters at 2 o'clock.

And at 4 o'clock a conference would be held between the manufacturers or supply houses and the association.

After a comic song and encore by Bert Harvey, Mr. Meredith thanked all the members for the hearty interest they had taken in the National association. The association was growing in strength, its influence extending from the rock-bound coast of Cape Breton to the sun-kissed shores of the Pacific. (Cheers.) Plumbers now recognized its value, and, as they were united by the strong bonds of business friendship, their union was bound to be lasting and mutually profitable. He thanked the supply houses for their courteous treatment of the association, and hoped that the conference at 4 o'clock on Saturday would be satisfactory to both parties.

L. B. Spafford was called on for a story, and responded with an excellent one in an Irish vein.

"The Dominion Supply Association" was next toasted, Alex. Saunders, Goderich; J. M. Taylor, A. McMichael, H. W. Anthes, J. H. Paterson, and Geo. H. Taylor, of Toronto, and Chas. Marks, Hamilton, responding.

Mr. Saunders was reminiscent, telling of the past when he had made traps with the dresser, and of the epoch in his life when he hailed with delight the first really well built trap he had constructed. It was a pleasure to meet with so many of his old friends, those whom he had been associated with, both as a plumber and as a supply dealer. In business life, on the street, in fact, nearly everywhere, all men wear a mask which hides their real nature, but there all were boys together—(cheers)—and any differences were forgotten. The plumber in a city was a much abused man. The comic papers make fun of him; the people who get his bills often acted as if he were a robber. Confidentially, he would say they were not. (A voice: "We all know that!") The plumber should be proud of his business. Discoveries had shown that there had been plumbers in ancient Rome. (A voice: "Any inspectors?") The profession was an ancient and honorable one. It should also be a paying one. As the present is a "growing time," the members should, by united efforts, endeavor to reap some of the harvest.

Mr. John M. Taylor had almost reached his majority as a manufacturer of plumbing goods. Before the end of the month he would have finished his 21st year in the business, which he started with The James Morrison Brass Mfg. Co., Limited, in his 13th year. He expressed pleasure that such harmony existed between the supply houses and the master plumbers. He closed

his speech by reciting a remarkably good story in poetry.

Mr. H. W. Anthes had, he thought, good news for the plumbers. An advance of 20 per cent. had been made in the price of soil pipe. This, he said, would give the plumbers an excellent opportunity to get better prices for their work.

Mr. J. H. Paterson claimed to be the oldest manufacturer of plumbing goods in Ontario, and had found the plumbers a fine lot of fellows at all times.

Mr. Geo. H. Taylor bore the regrets of Mr. Tilden, of The Gurney-Tilden Co., Limited, Hamilton, who had greatly desired to be present, but was unable to be there because of sickness in his family.

Instead of a speech, Mr. Chas. Marks responded with a good song.

Mr. McMichael was then called on, but stated that so many good things had been said in reply to this toast, that instead of speaking he would ask the chairman to propose the toast to "The Guests."

This was done, and it was received with cheers. The toast was responded to by Messrs. Wm. Clark, president of the Hamilton association; Frank Maxwell, president of the Toronto Journeymen Plumbers' Association; J. Stewart and A. Rogers, Hamilton, and F. H. Laigh and B. Noble, London.

Mr. Wm. Clark, on behalf of the Hamilton plumbers, stated that it had only been a short time since the association had been reorganized, but it now contains all the bona fide master plumbers of the city. He hoped the conference would result in a better understanding between the manufacturers or supply houses and the Hamilton masters.

Mr. Frank Maxwell, on behalf of the Toronto journeymen plumbers, thanked the masters' association for the privilege of speaking at their banquet. He desired to suggest the advisability of the appointment by the masters of a conference committee, which might meet the journeymen and discuss the different questions that might arise. Harmony prevailed between the two bodies, but it might be made more permanent by a free discussion of all differences.

Messrs. Stewart, Rogers, Laigh and Noble were all greatly pleased with the treatment they had received, and all agreed to wait over for the conference on the following afternoon. Three cheers were again given for the guests.

"The Medical Health Department" was then toasted so heartily that one might

think there never had been a difference between a plumber and an inspector. The toast was responded to by Messrs. Benjamin Kirk, W. H. Meadows and Wm. Copping. All of the inspectors were glad that the association was growing in strength, for their experience had been that the members of the associations were the ones who gave least trouble to the Health Department. They hoped that the near future would see an era of higher prices take the place of the present system of close figuring, which would give the master more plumbing, the manufacturers better prices, resulting in better material and less danger of trouble.

Bert Harvey was again called on for a couple of his inimitable songs.

The toast to "The Ladies" was enthusi-

master plumbers into closer relations with each other and to meet the supply men personally. The best of good-will should exist between all branches of the trade, as the interest of each was the interest of all, and the good of all should be the aim of each.

After four of the members had given a sample of their ability as cake-walkers, "God Save the Queen" and "Auld Lang Syne" were sung, and a most successful banquet was ended.

The committee to whom the success of the banquet was in a large measure due was composed of Joseph Wright, chairman; W. G. Ritchie, secretary, and Messrs. A. Purdy, Wm. H. Meredith, Mungo P. Huffman, K. J. Allison, C. E. Pickard, J. B. Fitzsimons, Henry Hogarth, A. S. Bates, W. Mansell.

MASTER PLUMBERS AND SUPPLY HOUSES.

The visit of Wm. Smith, president of the National Plumbers' Association, and other representatives of the Hamilton and London associations to Toronto did not end with their attendance at the banquet on Friday evening.

The conference, which was held on Saturday afternoon, was, in fact, most prolific in results beneficial to the trade in general.

At 2 o'clock the master plumbers held a meeting at which all grievances that existed between them and the supply houses were fully discussed. The principal complaint was that in Hamilton and London the supply houses were dealing with others rather than bona fide plumbers.

At 4 o'clock the meeting was enlarged into a conference between the masters and the manufacturers and supply houses.

The supply men had an offset to the grievances of the masters, as, they said, plumbers were giving orders to United States houses who did not acknowledge the association or protect its members in any way.

Both sides of the question were fully discussed, the end being that an agreement was reached by which the supply houses are to sell plumbing supplies in a city or town where there is an association only to firms which are recognized as bona fide master plumbers, and the master plumbers are to buy only from those supply houses which are in accord with the resolutions passed by the association at the convention in Quebec last July.



PRESIDENT SMITH, of the National Association.

astically received, and was responded to by Messrs. Geo. Cooper, Fred. Armstrong and A. Mann.

The secretary, Mr. W. G. Ritchie, was called on for a song, and he responded amid much applause.

"The Press" was toasted with especial warmth. Then Geo. H., F. J. and Adam Taylor gave the party a rousing vocal trio.

This ended the toast list, but Mr. Fred. Armstrong voiced the sentiment of all present when he proposed the toast to "The Health of Mr. Jas. H. Wilson," president of the association and chairman of the evening. This was received with three cheers, a tiger, and "He's a Jolly Good Fellow."

In reply, Mr. Wilson stated that the object of the banquet was to bring the

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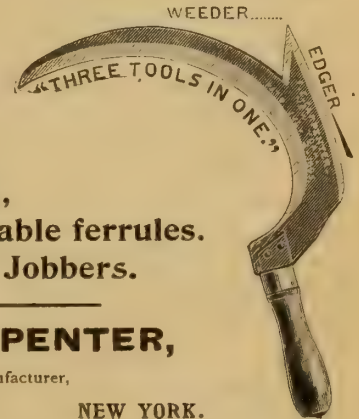
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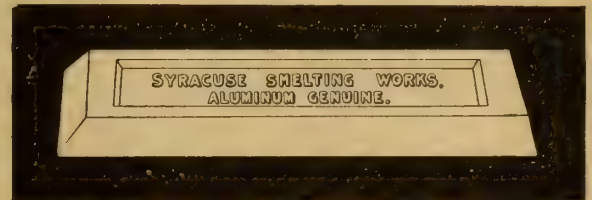
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Every pulley sold under our absolute guarantee

COOLING THE AIR IN HOT ROOMS.

AT the Heating and Ventilation Congress recently held in Munich, Dr. Bruckner spoke on the subject of cooling air inside rooms by means of cold producing machinery. He stated that expanding ammonia or carbonic acid took up heat as they expanded, which might be, so to speak, wrung out of them when they were again subjected to compression, and if they were carried away to the room to be cooled and compressed outside, they might thus be made, as it were, to sponge away the heat from the room.

For this purpose ammonia is the best suited, being cheaper to work than carbonic acid, and being detected at once, even by a sleeper, if there is any leakage, owing to inattention to joints or other causes.

In an ammonia cooling machine the gas is compressed, and cooled by water to a temperature below its critical point; it is thus liquefied, and when allowed to expand it becomes very cold, and may be made to cool the air directly; or may, as is the German practice, be made to cool a saline solution, which, in its turn, cools down the air. This latter method is considered, in Germany, to give a more easily regulated effect, and a more evenly distributed cooling. Ribbed pipes are used for house-cooling; smooth pipes for temperatures below 32 deg. Fahr. The machinery is usually situated in the basement or in a building apart. There is only one house, apparently, in Germany where cooling has been systematically provided for—it is in Frankfurt, and the installation has been working for five years. The three-horse-power compressor is in the cellar. Salt water is cooled and carried to pipes in the ceilings of the dwelling rooms; there the air is cooled, and falls down through fine slits uniformly distributed over the ceilings, and thus mixes with the air of the room. The cook, a woman, manages all that needs to be done. The thing is absolutely practicable.

Now, as to cost: In the above case, four rooms were fitted-up at a cost of about £1,000; the power is electric, and costs from £12 10s. to £15 a year, and the cost of oil and renewals of ammonia, and so forth, are nothing great with so small a plant. A scheme was drawn up by Professor Linde for cooling the telegraph office in Munich for the three large rooms, but this fell through.

1. The method presents the advantages that the amount of moisture can be regulated.

2. The incoming air can be rendered dustless.

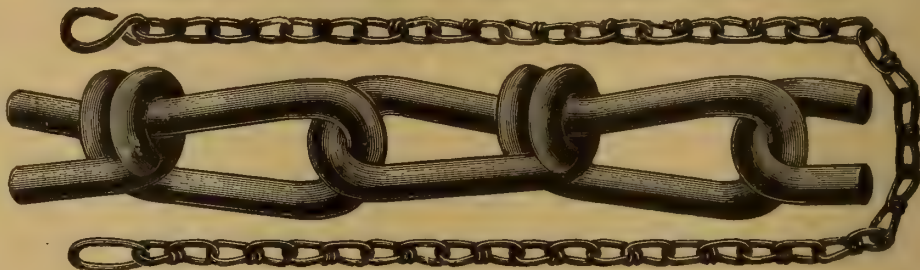
3. Micro-organisms in suspension in the

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IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

air are trapped, and stick to the hoar-frost on the brine coolers.

4. It is very easy to obtain cool drinking water, which is, at any rate, under certain conditions, greatly appreciated.

PLUMBING AND HEATING NOTES.

THE Craig street premises of Garth & Co., gas and steamfitters, etc., Montreal, have been burned; insured.

McCormick & Co., plumbers, Ottawa, have compromised and are out of business.

Eudoxie Daigneault, wife of Joseph Galarneau, has registered as proprietress of J. Galarneau & Co., plumbers, Montreal.

E. H. Russell & Co., plumbers, London, Ont., have removed to 421 Talbot street, corner Carling street.

Building permits have been issued in London to A. J. Morgan for the erection of a two-storey brick dwelling at the corner of Regent and Wellington streets, and to Mrs. Griffin for a frame store addition to her residence, corner of Richmond and Victoria streets that city.

Workmen have commenced excavating on the property at the corner of Main and Notre Dame streets, Winnipeg, for the Trust and Loan Co.'s new block. The contract price is in the neighborhood of \$40,000.

Modern blocks are to replace the old

buildings at the corner of Portage avenue and Main street, Winnipeg, which have been demolished.

Building permits have been issued in Hamilton to W. A. Edwards for alterations to a dwelling at the corner of Bay and Markland streets for Mrs. F. S. Malloch, to cost \$1,000; to L. Strauss, for a brick kitchen in rear of 98 James street north, to cost \$105; to Robert Clohecy, for alterations to St. Mary's Cathedral, to cost \$1,000, and for the erection of a molding shop for Brown, Boggs & Co., to cost \$1,400.

CANADIAN SILVER GOODS FOR SHEFFIELD.

The Toronto Silver Plate Co., Limited, is in receipt of the following inquiry from Sheffield, Eng., dated March 24: "Will you please quote us your lowest price for silver spoons and forks per ounce for those that you sell per weight. If terms are right, we think we can do something in them. We have your lists by us. Waiting your reply, we are."

This inquiry is from a large manufacturing and jobbing firm, and speaks for itself.

McArthur & Harper, general merchants, Kamloops and Ashcroft, B.C., are negotiating to sell their Ashcroft business to Dean & Shaw.

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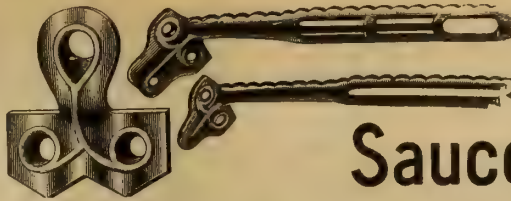
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Neatest designs, greatest strength and finest finish of any made. Large
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.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire
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Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.**Helps
to
Success**

If success is the reward of merit, then Church's Alabastine deserves your
confidence because it sells on its merits as the only sanitary and permanent
coating for the walls and ceilings of your rooms. Kalsomines decay on the
walls and are unsanitary—wall papers contain poisonous coloring matter
and are the refuge of vermin—but Alabastine (never sold in bulk) hardens
with age, like the rock from which it is made. It does not rub off or scale
—you use it with cold water. It is one of the "helps to success." But
you must be sure to ask for and insist on having

Church's Alabastine.

For sale by paint dealers everywhere

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid."
It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ont.**HUTCHISON, SHURLY & DERRETT****DOVERCOURT
TWINE MILLS.****1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,**Cotton and Russian Hemp Plough Lines, plain and colored.****Cotton and Linen Fish Lines, laid and braided.****Netted Hammocks, white and colored, Tennis and Fly Nets.****Shipping Ropes, Jute, Hemp and Flax Twines.**

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO., - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS.

April 14, 1899.
These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.	
Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 29
Straits	0 28 0 28½

Tin Plates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 00
I.X.	6 25
I.X.X.	7 50
R. & Co.—	
I.C.	4 75 5 00
I.X.	6 00 6 25
I.X.X.	7 25 7 50

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50
Raven & Vulture Grades—	
I.C., usual sizes	4 00
I.X.	4 75
I.X.X.	5 50
I.X.X.X.	6 25
D.C., 12½x17	3 50
D.X.	4 25
D.X.X.	6 25

NOTE.—Other brands might be shaded by 25c per box.	
Coke Plates—Bright.	
Bessemer Steel—	
I.C., usual sizes	3 15
I.C., special sizes, base.	3 25
20x28.	6 75
Charcoal Plates—Terne.	
Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 25
I.X.	7 75
I.C., Terne Tin	6 25
I.C., Orion	7 25 7 75
Charcoal Tin Boiler Plates.	
Cookley Grade—	
X X, 14x56, 50 sheet bxs	0 05½ 0 06
" 14x60 "	
" 14x65 "	

Tinned Sheets.	
72x30 up to 24 gauge	0 06 0 06½
" 26 "	0 06½ 0 07
" 28 "	0 07 0 07½

Iron and Steel.

Base Price	
Common Bar, per 100 lbs	1 70
" from factory "	1 60 1 65
Refined "	2 20
Horse Shoe "	1 85 1 90
Hoop steel, 1½ to 3 in. base,	
extras for smaller sizes	2 25
Swedish "	4 00 4 25
Sleigh Shoe Steel " base	2 25
Tire Steel	2 25
Machinery	2 40
Cast Steel, per lb	0 10 0 14
Toe Calk Steel	2 70
Thos. Firth & Sons' Cast Steel	0 12 0 14
Russian Sheet, per lb	0 10½ 0 11
Tank Plates, 1½ and thicker.	2 00 2 25
Boiler Rivets	4 50 5 00

Boiler Tubes.

1½-inch	0 06½
2 "	0 07½
2½ "	0 09½
	0 11

Steel Boiler Plate.

3-16 inch	2 00
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3-16 inch	1 90
¾ inch and thicker	1 75

Black Sheets.

18 gauge	2 40
20 "	2 50
22 to 24 "	2 55
26 "	2 65
28 "	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 60
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	
\$2.85; ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch,	
\$4.50; 1½ inch, \$6.00; 2 inch, \$7.40; 2½ inch,	
\$9.90. 2½ to 6 inch, discount 65 per cent.	
Galvanized, ¼ to ¾ inch, \$5.60; ½ inch,	
\$5.60; ¾ inch, \$6.10; 1 inch, \$8.90; 1½ inch,	
\$12.00; 2 inch, \$14.75; 2½ inch, \$19.75. Cast	
soil, 2, 3, 4 and 5 inch, 60 p.c.	

Galvanized Iron.

G C. Comet. Amer. Head.	
16 gauge	3 75 4 00
18 to 24 gauge	4 00 3 25 3 90 4 25
26 "	4 25 3 50 4 15 4 50
28 "	4 50 3 75 4 50 4 75
Less than case lots, 25c. per 100 lb. additional.	

Chain.

Proof Coil, 3-16 in., per 100 lbs	
" 5-16 "	6 50
" ¾ "	4 00
" 1 "	3 60
" 1½ "	3 40
" 2 "	2 35
" 2½ "	3 15
" 3 "	3 05
Trace, per doz. pairs	3 60 5 90
Jack chain, iron, single, per	
doz. yards	0 13 0 50
Jack chain, double, per doz.	
yards	0 15
Jack chain, brass, single, per	
doz. yards	20 10

Copper.

Ingot.	
English B. S., ton lots	0 18½ 0 19½
Lake Superior	
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in.	0 23 0 24
" round and square	
1 to 2 inches	0 23 0 24

Sheet.

Untinned, 14 oz., and light, 16	
oz., 14x48 and 14x60	0 23 0 23½
Untinned, 14 oz., and light, 16	
oz., irregular sizes	0 23 0 23½
NOTE.—Extra for tinning, 2 cents per	
pound, and tinning and half planishing 3	
cents per pound	
Tinned copper sheets	0 26
Planished	0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25
" 35 to 45 "	0 24
" 50-lb. and above, "	0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28
Spun, per lb	0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½	
p.c. off list	
Sheets, hard-rolled, 2x4	0 20 0 22½
Tubing, base, per lb	0 21 0 22

Zinc Spelter.

Foreign, per lb	0 07½ 0 07½
Domestic "	

Zinc Sheet.

cwt. casks	0 08
Part casks	0 08½

Lead.

Imported Pig, per lb	0 04½
Domestic, per lb	
Bar, 1 lb.	05½
Sheets, 2½ lbs. sq. ft., by roll	0 05 05½
Sheets, 3 to 6 lbs., per sq. ft.,	
by roll	0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra	
Pipe, by the roll, usual weights per yard, lists	
at 7 cents per lb. and 17½ per cent. discount.	
NOTE.—Cut lengths, net price, waste pipe	
8-ft. lengths, lists at 7½ cents.	

Shot.

Net list, no discount.

Solder.

Per lb. Per lb.	
Bar half-and-half	0 17½ 0 18½
Refined	0 17½ 0 17½
Wiping	0 16½ 0 17

NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb	0 11 0 11½
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White Lead.

Per cwt.	
Pure, Assoc. guarantee, ground in oil,	
25 lb. irons	6 00
No. 1 do	5 62
No. 2 do	5 25
No. 3 do	4 87½
No. 4 do	4 50
Robertson's Chemically Pure	6 00
Munro's Select Flake White	6 25
Elephant and Decorators' Pure	6 00
Brandram's B. B. Genuine	8 00
" No. 1	7 25
James genuine	7 20
" No. 1	6 75

White Zinc Paint.

Elephant Snow White	0 08
Pure White Zinc	0 08
No. 1	0 06
No. 2	0 05

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70 0 90
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00 1 10
Robertson's Pure	1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
Green	0 08
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	
cwt	1 35 1 40
Yellow Ochre (J.F.L.S.), bbls.	
per cwt	2 75
Yellow Ochre (Royal), per	
cwt	1 10 1 15
Brussels Ochre	2 00
Venetian Red (best), per cwt.	1 80 1 90
English Oxides, per cwt.	3 00 3 25
American Oxides, per cwt	1 75 1 90
Canadian Oxides, per cwt	1 75 1 90

Burnt Sienna, pure, per lb.	0 10
" Umber,	0 10
do "	0 09
rop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½
Ultra marine Blue in 28-lb.	
boxes, per lb.	0 08 0 24
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks	0 13½
50 lb. drums	0 14
1 lb. packages	0 15
½ lb.	0 16½
1-lb. tins	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 85
Bulk in bbls., per 100	1 65
Bulk in less quantities	1 80
25-lb. tins, 4 in case	2 05
12½-lb. tins, 8 in case	2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.	
extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.	

Varnishes.

(In bbls.)	
per gal	
Carriage, No. 1	0 90
Extra do.	1 07
Body Varnish	4 00
Furniture Varnish	0 45
Extra do.	0 80
Demar Varnish	1 40
Hard Oil Finish	1 10
Orange Shellac Varnish	1 90
White Shellac	2 00
Rubbing Varnish	2 40
Brown Japan	0 70
Elastic Oak	0 90

Linseed Oil.

Raw, per gal. net	0 52
Boiled, per gal. net	0 55
Outside points 1c. more than above figures	

Turpentine.

1 to 4 barrels, net	0 67
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 10½
Small lots	0 11½

Cod Oil, Etc.

Cod Oil, per gal.	0 50 0 55
Pure Olive	1 20
" Neatfoot	90

Glue.

(In bbls.)	
0 08½ 0 1	
Common	0 08½ 0 1
French Medal	0 12 0 1
Cabinet, sheet	0 11 0 12
White, extra	0 16 0 18
Gelatine	0 22 0 30
Strip	0 16 0 18
Coopers	0 19 0 20
Al clear	0 09

HARDWARE.

Ammunition.

Cartridges.	
R. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dis. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p.c. Amer	

HOES.
Garden, Mortar, etc. dis. 60, 10 and 5 p.c.

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		

Wire.

Hat and coat, discount 60 per cent.		
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"C" brand, 50 p.c. dis.		
"M" brand 50 p.c.		
P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		F.O.B. Toronto.
Light, medium, and heavy.	3 35	
Snow shoes	3 60	
Steel Shoes.		

Light, all sizes	3 60	
Featherweight	4 85	
Toe weight (steel)	5 85	

If shipped from factory, Montreal, 10c. per keg less.

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per		
doz.	0 30	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine,	6 00	9 00
Shutter, porcelain, F. & L.		
screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00		
doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00		
doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60		
10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heaths, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized,	1 87	3 85
King, wood,	2 75	2 90
King, glass,	4 00	4 50
All glass	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	2 50	2 20
Cabinet.		
Eagle, dis. 50 p.c.		
Padlock.		
English and Am., per doz.	50	6 00
Scandinavian,	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round head, discount 20 p.c.		

MALLETS.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:	Cut.	Wire.
24. and 3d	\$2 05	\$3 55
3d.	2 70	3 20
4 and 5d.	2 65	2 95
6 and 7d.	2 45	2 85
8 and 9d.	2 20	2 70
10 and 12d.	2 15	2 60
16 and 20d.	2 10	2 60
30, 40, 50 and 60d. (base).	2 05	2 55

Steel Cut Nails 10c. extra
Brads and finishing nails, special sizes,
80 p.c. from new list.

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross	3 38	4 00
Diamond	12 00	15 00

NETTING.

Poultry, 50 and 5 per cent. for McMullen's.		
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OIL.

Canada refined oil (Toronto).	0 14	
Carbon safety	0 16½	
American w. w.	0 17½	
Pratt's Astral.	0 17	

OILERS.

McClary's Model galvan. oil		
can, with pump, 5 gal.,		
per doz.	0 00	9 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Crass,	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head,	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis,		
Mrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to		
2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½		
to 4.	100 00	
No. 56 Hand Machine, range 2½		
to 6.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½		
to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½		
40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis		
60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's,	7 50	11 00
Wade & Butcher's,	3 60	10
Arbenz's,	9 00	18
Theile & Quack's	7 00	12

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc.		
(Steel), 60 p.c.		
Carriage, Section, Wagon Box Rivets, etc.		
(Norway Iron), 55 p.c.		
Black M. Rivets (Steel), 60 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb. cartons, ½c.		
per lb.		
Extras on Iron Rivets in ½lb. cartons, 1c.		
per lb.		
Copper Rivets & Burrs, 35 p.c. dis., and		
cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in		
½lb. cartons, 1c. per lb.		
Burrs, iron or steel, 50 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	Sisal.	Manila
¾ in.	10½	11½
¾ and 5-16 in.	11	12
Cotton	13	
Russia Deep Sea	14½	
Jute	6½	7½
Lath Yarn	8½	
New Zealand Rope	9½	

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 65	
N.P., per set.	0 80	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid,	1 25	

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
frame only.	0 75	

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
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SCREWS

Wood, F. H., iron, and steel, 82½ and 5 p.c.		
Wood R. H., " dis. 75 and 5 p.c.		
" F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., " dis. 67½ and 5 p.c.		
" F. H., bronze, dis. 67½ and 5 p.c.		
" R. H. 62½ and 5 p.c.		
Drive Screws, 82½ and 5 per cent.		
Bench, wood, per doz.	3 25	4 00
iron,	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS

Seymour's, dis. 50 and 10 p.c.		
Heinisch, dis. 50 and 10 p.c.		
Clauss, full nickel, 50 and 10 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 10 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews	4 50	11 50

SOLDERING IRONS.

Per lb.	0 25	
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	3 00	
Bright	2 75	

STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindustan,	0 06	0 07
" slips, per lb.	0 09	0 09
Labrador,	0 13	
" Axe,	0 15	
Turkey	0	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind, per ton.	15 00	18 00

Stove Polish.



No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case,	7 50	

STEP LADDERS.

BOECKH BROS. & COMPANY.

Best grade, from 3 to 10-ft. long, per foot, 16c
2nd grade, 3 to 10-ft., per foot, 10c.

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 190 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting

— and —

Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

THE PRESS CLIPPING BUREAU

Reads every newspaper in Canada and clips there-
from all articles of a business or personal nature of
interest to subscribers in this department.

Politicians can obtain from it everything the
papers say about themselves on any subject in which
they are interested. Business men learn of new
openings for trade, pointers to sell goods, addresses
of people likely to become buyers, tenders wanted,
stocks for sale or wanted, reports of new industries
or stores, etc.

Terms—\$5 per hundred clippings: \$40 per
thousand, payable in advance; but a yearly con-
tract will be found the most satisfactory.

We have also lists of firms in every branch
of trade in the Dominion, the professions, club
members, society, etc., and we are prepared to
address and mail circulars or letters to these at any
time.

**THE PRESS CLIPPING
BUREAU**

Board of Trade, Montreal

CHARLES F. CLARK,
President.

J. CHITTENDEN,
Treasurer.

ESTABLISHED 1849.

THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,
Executive Offices Proprietors.

NOS. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United
States, Canada, the European Continent,
Australia, and in London, England.

The Bradstreet Company is the oldest and, financially,
the strongest organization of its kind—working in one
interest and under one management—with wider rami-
fications, with more capital invested in the business, and
it expends more money every year for the collection and
dissemination of information than any similar institution
in the world.

TORONTO OFFICE.

McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

PERSONS addressing advertisers
will kindly mention having
seen their advertisement in
Canadian Hardware and Metal
Merchant.

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited

BRANTFORD.



Manufacturers of Re-
frigerators, Screen
Doors, Screen Win-
dows, etc. Household
Refrigerators in four
lines, Grocers' Re-
frigerators two lines,
Screen Doors six lines,
Screen Windows three
lines. All in various
sizes. Our aim is to
make first-class goods
at the right prices, and
to deal fairly with all
having dealings with
us. Send for 1899
catalogue.

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



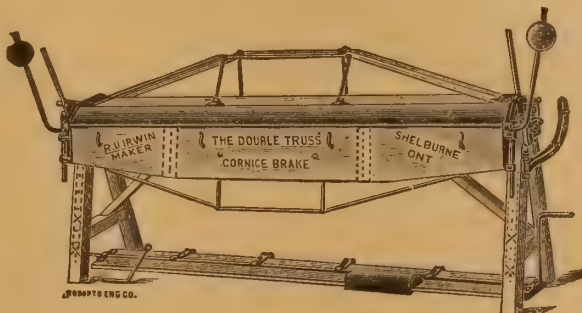
**SEND FOR
CATALOGUE.**

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co.** **SHELBURNE, ONT.**

Trade "DAISY" Mark.



Trade "DAISY" Mark.

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

Awarded
By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895

HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM
HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand
as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE CUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.



Well! Well! Well!

of all the ready mixed paints
Robertson's certainly is the best. It
wears so well. It looks so well. It
covers so well. It is made so well.
It sells so well and it pleases so well.
Are you handling it? You should be.

THE JAMES ROBERTSON CO., Limited

263-285 King Street West, TORONTO

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

UNEQUALLED VALUE.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, APRIL 22, 1899.

NO. 16



Magnolia Metal

*Best Anti-Friction Metal for
all Machinery Bearings.*

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.



The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.

MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—318 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,
266 and 267 West St., New York

GOOD WORK

MEANS

GOOD PAY.

"Queen's Head"

INSURES

GOOD WORK.

John Lysaght, Limited

BRISTOL, ENG.

MONTREAL.

25 Ideas

for 1 cent.

THEY are yours for a post card—
twenty-five ideas in Radiators.
Each idea represents a style of
its own for a definite purpose, for all
folks who use (or want to) Radiators
that won't leak, and give quick, posi-
tive circulation in a minute after the
heat is turned on.

Twenty-five ideas for
a cent—isn't it worth your while to send for them
and thus know all about the largest Radiator Man-
ufacturers under the British Flag? The origina-
tors of the Screw Nipple connection that does
away with bolts, rods, packing, and absolutely
prevents even a suspicion of a leak.

The
Safford
Radiators

The Dominion Radiator Company

LIMITED

TORONTO, ONTARIO

RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN
Toronto, RICE LEWIS & SON
Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."
"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. O. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

CANADA'S BEST SCALES



GURNEY

Accurate and
Durable.

NEW CATALOGUE

DISTRIBUTED RECENTLY.

Have you received a copy of it?

THIS NAME
GUARANTEES
THE QUALITY.

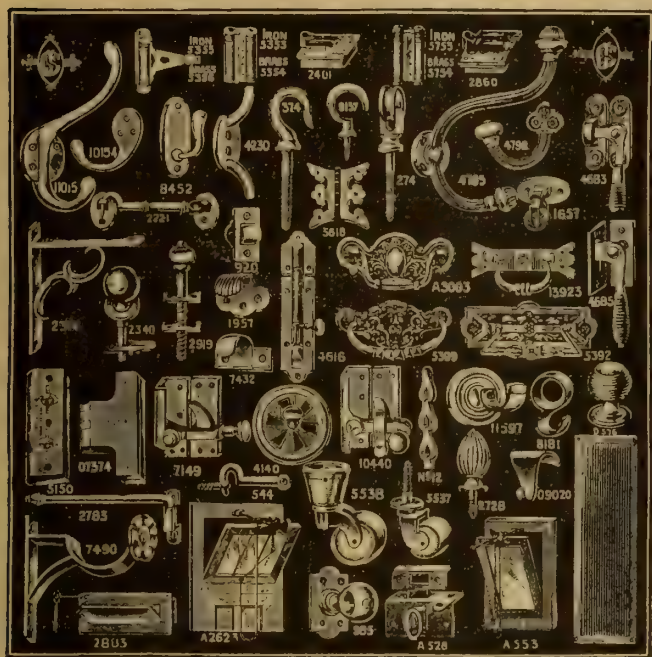


THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.

James Cartland & Son

Manufacturers of every description of **Limited**
CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
BIRMINGHAM, ENGLAND.



London Showrooms: 57 Holborn Viaduct, E.C.

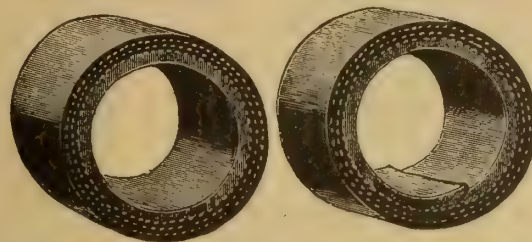
ALL OUR Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

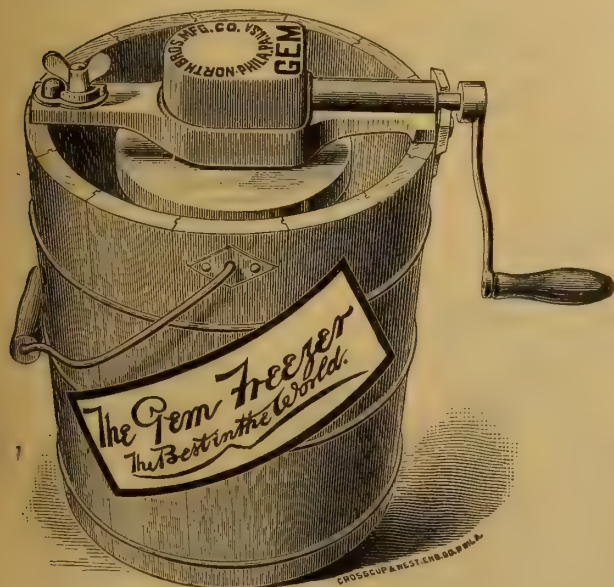
THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



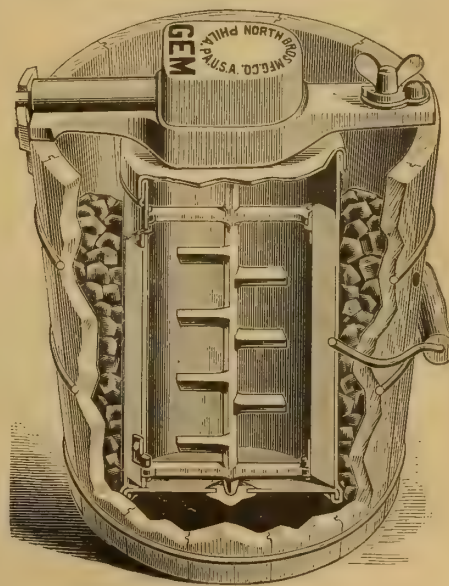
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

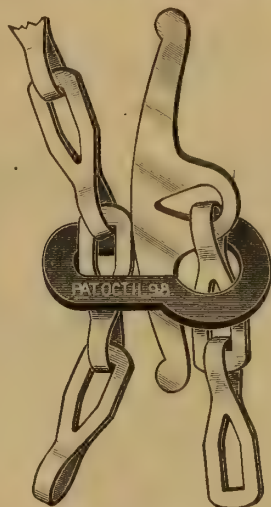
Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899)



which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.

Ring easily ADJUSTED until
Toggle is in place, then abso-
lutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.

**David Maxwell & Sons**

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

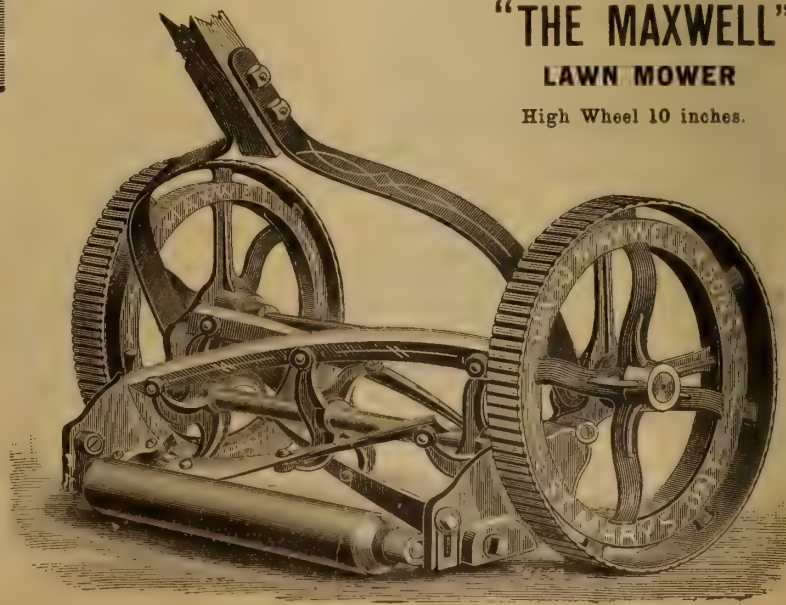
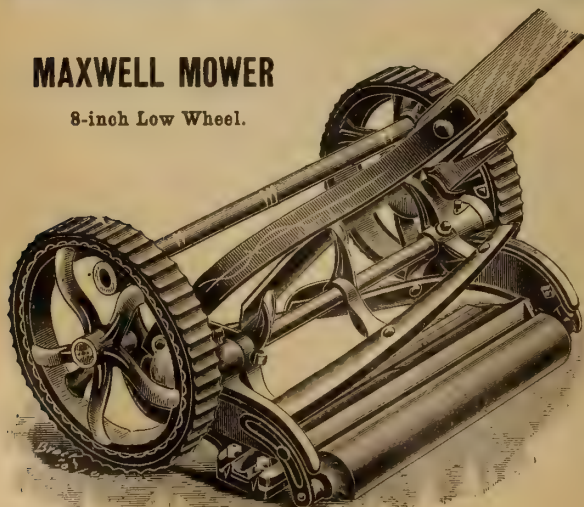
"THE MAXWELL"

LAWN MOWER

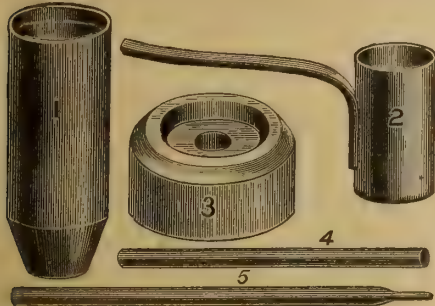
High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.



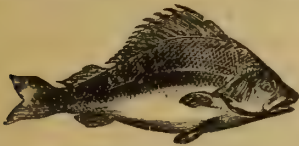
RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

Laplough & McNaughton, Montreal

Fishing Tackle.



ALLCOCK'S STAG BRAND

goods are the best. When you buy from us you buy from the largest makers and oldest house in England. Established 1800.

TRADE MARK
The Allcock, Lait & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

The Leader Churn

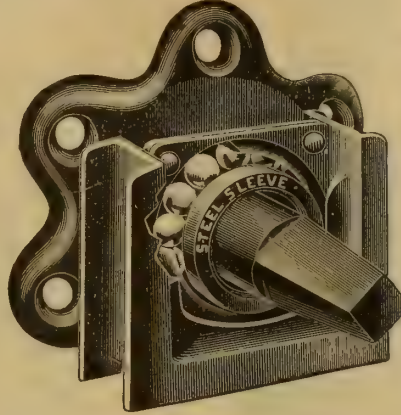
(TWO STYLES.)

1898 Stand, with lever attachment.
1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.
SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



This is our Latest Stand, with Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited
HAMILTON, CANADA
W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.

EDDY'S WRAPPING PAPERS

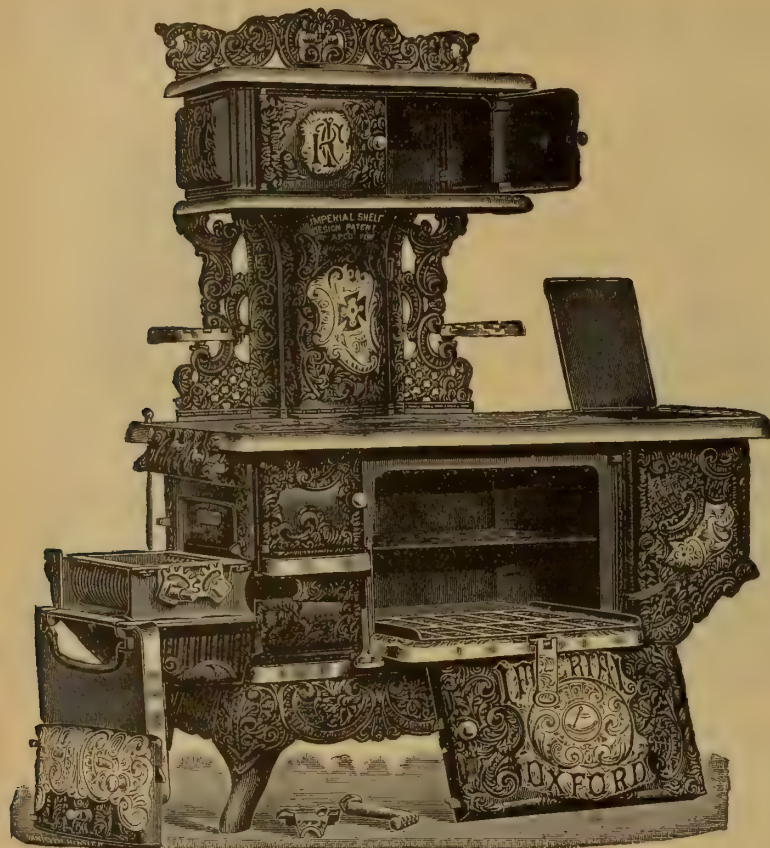
possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER
PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.



THE SUCCESS

of our new-

Imperial Oxford

RANGE

Ever since it was first manufactured, has been enormous. Its splendid construction and new patented features give it precedence over all others.

**Its Front Draw-Out Grate
Diffusive Flue Construction
Draw-Out Oven Rack**

and other improvements need only to be seen to be appreciated by your customers.

If you haven't them in stock, better write for full information and price list.

They're the "finest range that has been."

The Gurney Foundry Co., Limited, Toronto

THE GURNEY-MASSEY CO., Limited, Montreal.

"Gordon Crown"

GALVANIZED IRON

Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

	24	26	28 gauge
72 x 30	70	97	113 sheets
96 x 30	52	73	84 "

This is the **LIGHTEST IRON MADE.**

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE :

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

HEADQUARTERS.

Sanderson Percy & Co.

FINE COLORS, WINDOW GLASS, ETC.

- - - - TORONTO - - - -

Standard Steel Toe Calks

WRITE
FOR
DISCOUNTS.Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.Sizes—No. 0 to 5, 1½ to 2¾ inches. Price \$1.25 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.**JAMES PENDER & CO., Limited,** = **Saint John, N. B., Canada.**

BINDER TWINE.

There is none
"just as good."

Pure Manila

 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter,
and a Binder will run all day with them with-
out stoppage, thus saving time, annoyance
and an endless lot of trouble.We pack our twine in bags of the size of ordin-
ary grain bags and are not ashamed to put
our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

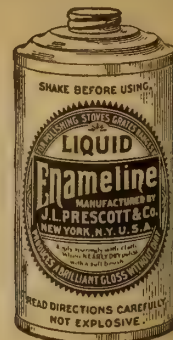
The Modern **STOVE POLISH**



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d and 1/ tins

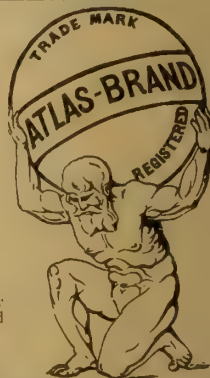
Ground, Washed and Flour.

WHEELS of highest quality for general and special purposes.

EMERY GRINDING MACHINERY

10-12 Vine Street
Clerkenwell,

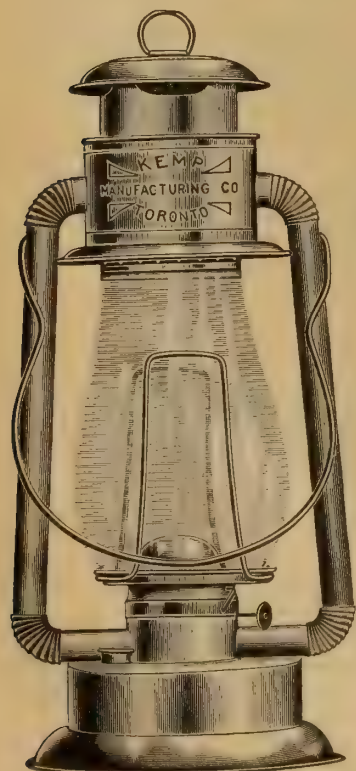
LONDON, E.C.



Write for Latest Catalogues and Samples to

THE **LONDON EMERY WORKS CO.,**

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S COLD BLAST LANTERN

The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



Vol. XI.

MONTREAL AND TORONTO, APRIL 22, 1899.

No. 16

President,
JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

OFFICES

MONTREAL - - - - Board of Trade Building,
Telephone 1255.
TORONTO - - - - 26 Front Street West.
Telephone 2148.
LONDON, ENG. - - - 109 Fleet Street, E.C.,
J. M. McKim.
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ST. JOHN, N. B. - - - No. 3 Market Wharf,
J. Hunter White.

Subscription Canada, \$2.00 Great Britain, \$3.00
Published every Saturday.

Cable Address { Adscript, London
Adscript, Canada

**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THE GENERAL IRON SITUATION.

THERE has been no general change in the general iron and metal situation during the past week in the leading centres.

In England, pig iron warrants have not varied at all, while steel rails and steel billets in that country, were cabled at the same figures this week as they stood last.

In the United States, the only change has been a slight modification in the price of southern pig iron at New York, but, at Pittsburg, the prices on all leading lines are practically unchanged.

Copper in London has advanced this week, and is now £2 5s. higher than it was

a week ago at £73 17s. 6d. In New York, also, the price per pound is ¼c. higher at 17½ to 18½c. according to grade.

Since January 1, prices on spot G.M.B. copper in London have ranged from £58 1s. 3d. the lowest price, to £75 10s., the highest price, and in New York lake ingots from 13¼c., the lowest, to 18¼c., the highest price.

In London, spot and three months' tin have ruled about the same since last week, spots closing £113 15s. and three months' £114 17s. 6d. In New York, Straits tin is rather firmer, at \$25, as against \$24 95 a week ago, but Lamb and Flag is lower at \$25.75, as against \$26 a week ago.

The following statistics in relation to tin may be interesting:

CONSUMPTION.

	March.	April.
London deliveries.....	810	1,150
Holland deliveries.....	1,102	1,098
United States deliveries..	2,600	2,500

Total..... 4,572 4,748

Spot stock, London.....	7,444	6,740
" " Holland.....	4,085	3,348
" " United States.....	980	1,020

Total stock..... 12,509 11,108

Afloat stock, London....	1,710	2,464
" " Holland....	1,133	1,258
" " U.S.....	5,290	5,230

Total afloat..... 8,133 8,952

TOTAL VISIBLE SUPPLY.

	Tons.
March 31, 1899.....	20,642
February 28, 1899.....	20,060
March 31, 1898.....	28,058

STRAITS SHIPMENTS, FIRST HALF APRIL, 1899.

	Tons.
To London.....	300
Continent.....	270
United States.....	1,150

Same period, 1898..... 1,720
1,390

Increase..... 330
Increase since January 1..... 225

UNITED STATES STOCK.

	Tons.
March 31, 1899, spot.....	980
Arrived since.....	2,040
Consumption, April 1 to 15.....	3,020
April 15, spot stock.....	1,770
afloat.....	4,950
U.S. visible supply, April 15.....	6,720

A comparison of the prices on leading materials this year and last shows that in every line the increased cost this year is remarkable:

	1899.	1898.
Scotch warrants.....	£ s. d. 2 14 3	£ s. d. 2 6 1
Middlesboro No. 3.....	2 8 0	2 0 0
Lead, soft Spanish.....	14 10 0	12 15 0
Spelter, G.M.B.....	27 17 6	18 11 3
Straits tin, spot.....	113 15 0	65 0 0
Copper, G.M.B.....	74 1 3	51 8 9
Silver.....	27 8 4	25 7 8

AMERICAN PRICES.

Pig iron warrants.....	\$10 50	\$6 80
No. 1 foundry, Pittsburg.....	16 00	11 00
Bessemer, ".....	15 15	10 45
Steel billets, ".....	25 00	15 25
Sheet steel bars, ".....	25 50	17 40
Lead, desilverized, ".....	4 32½	3 65
Spelter, domestic, ".....	6 55	4 30
Straits tin, spot.....	25 00	14 50
Copper, lake ingot.....	18 75	12 30
Tinplates, J.B. grade coke, 100 lb.....	3 95	3 75
Antimony, Cookson's.....	10 75	8 05
" Hallett's.....	10 00	7 75

The number of charcoal and coke furnaces in blast at present in the United States and their capacity is as follows:

	In blast.	Capacity per week.
		Tons.
Charcoal.....	17	4,777
Coke and anthracite.....	188	240,969

April 1, 1899..... 205 245,746

March 1, 1899..... 191 228,195

April 1, 1898..... 194 233,339

Furnace stocks, sold and unsold—

Anthracite and coke.....	229,907
Charcoal.....	82,056

April 1, 1899..... 311,963

March 1, 1899..... 427,081

Bad business methods are as detrimental to business as bad companions are to character.

THE BANKS AND THE INSOLVENCY BILL.

A PROPOSED COMPROMISE.

THE chief opposing force during last year to the insolvency bills which have been submitted to Parliament was the banking institutions. And the chief cause of their complaint was that the bills did not allow them to enjoy double liability on negotiable paper in which insolvents were interested.

At the present session of the Dominion Parliament, a bill has again been introduced with a view to giving the country the long needed insolvency law, and with the view of securing the cooperation and not inciting the opposition of the banking fraternity, a compromise proposal will be submitted to the council of the Bankers' Association some time this month, on behalf of the board of trade.

This compromise proposes that where there is a negotiable instrument which has not matured, such as a promissory note, for example, held by the bank and for which the insolvent is only secondarily liable, the bank shall set a value upon the liability of the person primarily liable, who, of course, is the maker, and the difference between such value and the amount of the claim, shall, until the instrument matures, be the amount at which the claims shall be calculated for the purpose of voting at meetings and other purposes, except the payment of dividends thereon. After the maturity of the instrument the claim is to be calculated for all purposes at the full amount.

The proposal strikes us as being a most fair one. Whatever the financial standing of the maker of a negotiable instrument is, it is only fair to all parties concerned, and particularly to the creditors other than the bankers if his financial standing be A1, that his value should be taken into consideration. It is obviously unfair to the other creditors, outside the banks, that he should be accounted as if he were a man of straw in order that the banks may enjoy special and unwarranted privileges.

As it is, the boards of trade have, in their compromise, exhibited a most liberal spirit particularly in allowing the bank holding the negotiable paper to be the valuator of the person primarily liable thereon.

But, to secure an insolvency law, it is

worth compromising as long as the concessions demanded are not too unreasonable.

A TIMELY WINDOW DESIGN.

SPRING is now upon us. So also is the time when paints are in demand.

A Toronto paint dealer recognizes this, and has a pretty and attractive display in his window to remind people of the fact.

In the back of the window is placed a large-faced clock. Carelessly, yet neatly, thrown over the clock is a linen or cotton material whose folds reach to the front of the window. In fact, they cover nearly the whole floor space of the window.

Immediately in front of the clock, at an angle of about 40 degrees, is a neatly framed card showing the various colors and tints of prepared paints carried in stock, while another card resting upon the top of the clock bears in large letters these words: "Time to Paint."

ST. JOHN'S WINTER PORT TRADE.

When the Allan liner Mongolian sails next Sunday, the winter port trade from St. John, N.B., will be over. Fifty steamers will have taken cargo as follows: Dominion line to Liverpool, 13; Allan line, 9; Beaver line, 2; Donaldson line to Glasgow, 13; Manchester line to Manchester, 6; Head line to Belfast and Dublin, 7. There were also the regular fortnightly sailings of the small Furnace liners to London. This year's total trade shows an increase over that of last year. For example, the value of cargo taken to Glasgow is 40 per cent. greater than that of last season. The proportion of American produce carried was larger this season than last.

The Provincial Legislature has given its endorsement to the scheme to provide a great modern dry dock at St. John. It is hoped to get Federal and Imperial aid.

SCEPTICS WITHOUT MUCH CAUSE.

When "Old Probs," as we are accustomed to call the meteorological service when personifying it, makes a miscalculation in his weather forecasts, most of us are ready to deride him and to make sceptical remarks as to his ability to foretell the

weather. A table, however, which appears in the recently issued report of the Marine and Fisheries Department of the Dominion shows what little ground we have for being doubting Thomases.

The meteorological service of the Dominion is divided into 11 districts, and the return in question shows that the average percentage of the forecasts verified in all these during the year ending June 30 last, was not less than 82.5.

The district which showed the lowest percentage was Manitoba with 81.1, and that which showed the highest was the Ottawa Valley with 84.8.

It is evident we can put our trust in "Old Probs" with a no small degree of confidence after all.

AN ANTI-TRADING STAMP BILL.

THERE is a bill before the New York State Assembly, at Albany, prohibiting the use of trading stamps, and one day last week the committee to whom the bill has been referred for consideration gave a hearing to those in favor and to those opposed to it.

Among those present in favor of the bill and against trading stamps were the members of the Merchants' Legislative League of the State of New York, which is composed of merchants of Buffalo, Rochester, Syracuse, Utica and other cities.

One of the merchants said he was a member of a big dry goods firm and a representative of 27 firms which have used trading stamps. He also represented merchants from several other towns. All of them had used trading stamps and all of them believed that the trading stamp promoted illegitimate competition in business.

One of the Assemblymen appeared as the champion of the trading stamp companies. The bill in question he declared to be an attempt at class legislation, and averred there was no practical difference between handing out trading stamps and the placing of coupons in soap and other packages.

What the Assemblyman said by way of comparison in regard to trading stamps and soap coupons may be true enough, but that is no argument in favor of trading stamps. Two wrongs can never make a right.

MINERAL PRODUCTION IN QUEBEC.

AN interesting report regarding the mineral output of Quebec has just been issued by the Department of Colonization of that Province.

The mineral which, in value, heads the list is asbestos, the product last year being valued at \$496,340. Low-grade copper ore comes next with \$143,884.

The charcoal pig iron produced was 5,761 long tons, valued at \$116,154. Bog ore to the value of \$37,927 was produced, and the yield of the chrome iron is placed at \$25,000. Mica, thumb-trimmed, is valued at \$81,000. The output of gold was small, being only 370 ounces, valued at \$6,500.

It was explained in **HARDWARE AND METAL** a few weeks ago that the small output of charcoal iron at the Radnor forges was due to the plant having been closed down for several months, while alterations and improvements were being made.

The Superintendent of Mines, Mr. Obalski, in commenting upon the report, states that no iron mine was worked in the Province during the year, "and the industry is represented by the Radnor and Drummondville forges, whose production fell off from 9,392 tons in 1897, to 6,453 tons of charcoal pig, the ore treated being 22,137 tons and 14,966 tons in 1897 and 1898 respectively."

Fresh tests of titanic iron were made during the year, and the Superintendent of Mines is of the opinion that should there be any demand for this material the Province could supply unlimited quantities.

Eight companies are working the chromic iron deposits of the Province. The Statistical Year Book of the Dominion points out that large deposits of chromic iron were found in Coleraine, Quebec, in 1895, and that the ore averaged over 50 per cent. of metal. The metal is easily mined. In 1895, 2,837 tons of this ore were produced in the Province, but last year the quantity was only 1,804 tons.

The copper mines of the Capleton district were worked throughout the whole year. The yield was 35,686 gross tons of low-grade copper, of which 10,372 tons were treated for sulphuric acid, while the remainder was shipped to the United States. In 1897, the

quantity produced was slightly larger than that of last year.

The asbestos industry in the Province is in a fairly satisfactory condition, the demand being good and the prices better than they were.

The yield of all minerals in the Province, including lime \$140,000 and bricks \$600,000, was \$1,673,337.

A PLATE GLASS ASSOCIATION.

An attempt is being made to form among Canadian dealers in plate glass an association similar to that existing among the manufacturers of white lead.

So far as can be learned the scheme has not yet been carried out unanimously, but there is an apparent understanding as to the price.

The demand at present is not very brisk, but some good contracts are expected as building operations are likely to be active in all parts of the country.

A SCARCITY OF WHITING.

For some time there has been a scarcity of whiting in Toronto. This week the shortage has become so pronounced that dealers, in order to discourage orders of large quantities, have withdrawn the 5-bbl.-lot price, which was 5c. below that charged for small quantities, and now one price, 60c. per 100 lb., is asked for all lots, large or small.

WINDOW GLASS ARRIVING.

Some of the large wholesale window glass houses in Toronto report the arrival this week of window glass, which has been ordered early for sorting-up purposes.

This will, of course, relieve the shortage in many breaks, and retailers will not have the trouble they have experienced lately in getting their orders filled.

ADVANCE IN WIRE AND WIRE GOODS

Wire and manufactures of wire continue to appreciate in value in the United States, quite an advance having gone into effect this week.

Wire nails, wire and barbed wire have all been advanced a clear 10c. per 100 lb. to large buyers, while to buyers of single carloads the price is really 15c. higher, because single carloads are to be 10c. per keg

higher than the figure for larger quantities to jobbers, instead of 5c. per keg as formerly. Then, the price for galvanized is to single carload buyers 50c. per 100 lb. over that of the plain merchantable wire.

In Canada, barbed wire is the only line in which any change has taken place. This change is noted in another article.

AMALGAMATION EFFECTED.

THE amalgamation of The Hamilton Blast Furnace Co. and The Rolling Mill Co., of the same city, is understood to have been agreed upon at a meeting of directors on Tuesday last. Although the agreement has yet to receive the endorsement of the shareholders, the amalgamation is practically effected.

The Hamilton Herald says the capacity of the plant of The Blast Furnace Co. is 108 tons daily, although it is claimed that it can turn out 200 tons.

The capital stock of The Hamilton Blast Furnace Company is \$1,000,000 and of The Ontario Rolling Mill Company \$100,000, while that of the combination will be \$2,000,000.

It is part of the new company's plans to erect a steel plant, and this and the plants now in operation will give employment to a large extra force.

COIL CHAIN IS HIGHER.

Coil chain is quoted 40c. per 100 lb. dearer, both the English and the United States manufacturers having notified the Canadian jobbers of an appreciation in their figures.

Quotations upon the Toronto market are now as follows: $\frac{1}{4}$ inch, \$6.90 per 100 lb.; 5-16 inch, \$4.40; $\frac{3}{8}$ inch, \$4; 7-16 inch, \$3.80; $\frac{1}{2}$ inch, \$2.75; $\frac{5}{8}$ inch, \$3.55; $\frac{3}{4}$ inch, \$3.45.

There is a good demand for trace chain, and quite a few shipments are being sent out this week.

ADVANCE IN BARBED WIRE.

Still another advance in the price of barbed wire is to be noted. It is again 25c., and is in sympathy with the outside markets.

The ruling price f.o.b. Toronto is now \$2.90, although some dealers have advanced their figure to \$3.05. The ruling quotation in Montreal is \$3 per 100 lb.

In October last the price f.o.b. Toronto was \$1.80 per 100 lb., making the aggregate advance since then over 61 per cent.

As noted elsewhere, the price of barbed wire in the United States has been advanced during the past week.

TRAVELING MEN AS COLLECTORS.

(An address by L. T. Ford.)

THE traveling man represents the house to the country customer in all its departments. It may be usually conceded that he only acts as salesman, and all he has to do is to quote prices and take his order, but often there come up matters between the retailer and the jobber, or manufacturer, which need personal attention, and the retailer very naturally makes his complaint to the traveling man, as he is a personal acquaintance. He is called upon by the retailer

TO MAKE GOOD SHORTAGES

and damages, as the traveling man can see the goods in the same place as the retailer, and from his personal acquaintance with his customer, he can settle such complaints to the satisfaction of the employer and customer. Quite often such settlements can be made more satisfactorily by the traveling man, as he can give them a personal investigation, whereas the jobber is usually at a loss to know what allowance would be equitable after reading the retailer's complaint. In many ways the salesman and customer cultivate each other's acquaintance until the customer looks to

THE SALESMAN AS HIS FRIEND

in all matters pertaining to his business with the house. If he gets behind with his account he confides more fully with the salesman, telling him he will buy in smaller quantities until his surplus stock is reduced and his account is reduced to a more satisfactory amount. As the traveling man attends to other matters arising between jobber and retailer, it becomes part of his business to look after the accounts for goods which he has sold. It perhaps requires more tact on the salesman's part to collect for merchandise sold than to make the sale. However, he can educate his trade to his manner of doing business, and in time the collecting becomes so much a

PART OF THE BUSINESS

to be transacted that it becomes an easy task. I have had traveling men tell me of different customers who, after the usual greeting, will say: "Well, Charley, you have my statement with you, let me get that settled; then I will see what I want." Such customers usually confine their trade to a few houses in which they have confidence, and the confidence reposed in the house is due to his favorable acquaintance with the salesman.

I believe it is policy, to bring the salesman into the credit office often and talk over different customers, and many times during such conversations opinions will be

expressed by one or the other that will direct the credit man to

HANDLE WITH MORE

care certain customers, or the salesman will take more particular notice of some customer to guard against the account getting in bad shape, for the salesman who endeavors to make a record strives to keep his bad accounts at the minimum.

As business methods change a demand for a different kind of commercial traveler is created, and a "has been" salesman is not usually wanted by the house seeking a new man.

THE TRAVELING MAN

that is demanded to-day is an all-round good business man, and it does not make so much difference whether or not he "stands in" with the boys, but has he the ability to attend to his business and the ambition to be everlastingly at it. Ability, ambition and honesty is what we want in men to represent us to our customers. I believe nearly every jobber in this city could use another man as salesman if they could find just the kind of man they want.

By the salesman attending to these different features of the jobber's business, he will take particular notice of any detrimental change in his customer's affairs that may come to his notice on his customary visits. On his entering his customer's store, he will bear in mind

HIS CREDIT STANDING

and how his account stands, so when buying goods the customer also knowing that the salesman carried his accounts in his pocket, will be cautious that he does not overreach his credit, especially if he is not prepared to pay bill due.

What I have said applies principally to jobbers whose accounts are small and who sell to a class of trade with limited capital. However, it often works well for the salesman to collect from some customers whose credit standing is good but for some reason they

NEGLECT THEIR ACCOUNTS.

To collect and do satisfactory work it is necessary that the salesman and the credit man act in harmony, so that the disposition of the salesman will be to carry out the will of the credit man regarding the collections.

I don't know that I should advocate that salesmen should carry statements and make a business of collecting their accounts for houses whose business is in large accounts; however, if the jobber could get the right kind of a salesman to represent him, it might prove to his advantage at many times.

I have not attempted to cover the subject

in these few remarks, but simply gave you a few ideas that came to me.—The Lawyer and Credit Man.

RECOVERY IN IRON PRODUCTION.

The Iron Age in its monthly review of the pig iron production, says: The temporary decline in the production of pig iron has been recovered in March, and through the blowing in of a number of additional furnaces it has been further increased, counterbalanced partly by the stoppage for repairs of some of the larger stacks.

The weekly capacity of the furnaces in blast on April 1, compares as follows with that of preceding periods:

	Furnaces in Blast.	Capacity Per Week. Gross tons.
April 1, 1899	205	245,746
March 1	192	228,195
February 1	195	237,639
January 1	200	243,516
December 1, 1898	195	235,528
November 1	196	228,935
October 1	192	215,635
September 1	186	213,143
August 1	187	206,777
July 1	185	216,311
June 1	190	225,398
May 1	194	234,163
April 1	194	233,339
March 1	193	234,430
February 1	184	226,338
January 1	188	226,608
December 1, 1897	191	226,024
November 1	183	213,159
October 1	171	200,128
September 1	161	185,506
August 1	152	165,378
July 1	145	164,064
June 1	146	168,380
May 1	146	170,528
April 1	153	173,279

The position of furnace stocks, sold and unsold, as reported to us, was as follows on April 1, the same furnaces being represented as in former months. This does not include the holdings of steel works producing their own iron:

Stocks—	Jan. 1.	Feb. 1	March 1.	Apr. 1.
Anthracite & coke	402,260	365,311	328,987	229,907
Charcoal	104,315	97,593	98,004	82,056
Totals	506,575	462,904	427,081	311,963

We are indebted to the American Pig Iron Storage Warrant Company for the following statement of stocks of warrant iron:

Stocks—	Jan 1.	Feb 1.	March 1.	Apr. 1.
Coke & anthracite	113,100	100,700	95,000	82,700
Charcoal	37,700	34,500	31,300	27,000
Totals	150,800	135,200	126,300	109,700

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

STILL FEAR THE PUNCTURE FIEND

NOT even in this enlightened age has the wheelman rid himself of that fear of the puncture fiend which has haunted his waking hours since the pneumatic was first put on the market. Inventors have striven to defeat him as earnestly as they have tried to solve the problem of perpetual motion, but he will not down, although some of the fear is dying out. When the day arrives when we shall see a resilient pneumatic tire which will not puncture, then we will also see pigs flying and hens barking. There will always be danger of a puncture, although tires have been so improved that one is not so liable to meet with disaster as he was several years ago. Nowadays, it is more a matter of luck than anything else.

Some of the products of the inventors' brains are still before us. At one of the shows we saw a contrivance, consisting of a solid tire fastened to a flexible rim wheel, the whole affair weighing one or two pounds more than the ordinary wheel. Now there comes a mate to it, this time out of the East. It is claimed that these two devices absolutely prevent puncture; but then so does a wagon wheel's iron tire, but it does not ride so easily as an air-shod wheel. This eastern device is the discarding of the pneumatic tire and the use of a special cushion tire the necessary resiliency being obtained by means of a series of convex springs connecting the rim with an inner wheel to all intents and purposes the counterpart of the wheel at present in use on the majority of bicycles, except that it is of course smaller and has a flat steel rim, which at the points of contact with the convex springs is fastened with small bolts and nuts.

This device is no better nor worse than the countless others which have been brought out to supplant the pneumatic. They are all on this order and serve but as a means for the rapid distribution of the inventor's money. They never have been worth using, even on an ordinary, and should never be mentioned in the same breath with the pneumatic. They are monstrosities and the nightmares of the maker. —Iron and Steel.

TOOLS USED IN UPHOLSTERY.

The tools used in upholstering furniture are neither costly nor numerous. One of the most necessary is a gimping hammer, which differs from the ordinary hammer in having a long narrow head; it is used for knocking in the small gimp pins which secure the gimps and laces used in finishing. An assortment of needles is also required, and should include a 9-inch double-pointed

COUNT IT UP

Figure out how much you will save by using The Sherwin-Williams Paints. Consider their covering capacity, their long-wearing qualities, their good looks, their all-round economy and you will never allow the use of a chalky white lead paint or a brittle zinc paint on your property.

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are simply the best paints that scientific methods and machinery can make. And they're as much ahead of "pure" white lead as white lead is ahead of whitewash.

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mattress needle for stitching up edges and buttoning, a curved spring-needle for stitching the springs to the webbing and under-cover, and a carpet needle. Other tools that will be necessary are a couple of fine awls for leather work; a regulator, formed with a strong, flat curved blade, somewhat similar to a large packing needle, set in a wooden handle and used for pushing up the hair or flocks to the edges in stitching up; a pair of web pincers; a lever web-strainer; a rule and tape measure; a pair of large scissors; a few strong chisels; and a sharp knife. —Work, for March.

DRESS IS NOT BRAINS.

Generally shyness comes from a person thinking too much about himself—which in itself is a breach of good breeding—and wondering what other people think about him.

Beauty in dress is a good thing, rail at it who may; but it is a lower beauty, for which a higher beauty should not be sacrificed. They love dress too much who give it their first thought, their best time, or all their money; who for it neglect the culture of the mind or heart, or the claims of others on their services; who care more for dress than for their character; who are troubled more by an unfashionable garment than by a neglected duty.

When Ezekiel Whitman, a prominent lawyer and graduate of Harvard, was elected to the Massachusetts Legislature, he came to Boston from his farm in countryman's dress, and went to a hotel in Boston. He went into the parlor and sat down, when he overheard a remark between some ladies and gentlemen. "Ah, here comes a real homespun countryman. Here's fun." They asked him all sorts of queer questions, tending to throw ridicule upon him, when he arose and said: "Ladies and gentlemen, permit me to wish you health and happiness, and may you grow better and wiser in advancing years, bearing in mind that outward appearances are deceitful. You mistook me, from my dress, for a country booby; while I, from the same superficial cause, thought you were ladies and gentlemen. The mistake has been mutual." Just then Governor Caleb Strong entered and called to Mr. Whitman, who, turning to the dumbfounded company, said: "I wish you a very good evening." Dress, like wealth, is a power, but we must not be its slaves.—Pushing to the Front.

The annual report of the Marine Department shows that, during the year 1898, the number of wrecks in Canadian waters was 187, representing a total loss of \$722,967 in vessels and cargo.

STOVES IN THE MARITIME PROVINCES.

A MEETING of the Maritime Provincial stove manufacturers was held in Halifax on April 12. There were present: Joshua Peters, Record Foundry and Machine Company, Moncton; Charles Fawcett, Sackville Foundry, Sackville, N.B.; C. H. Bryant, Burrill-Johnson Iron Company, Yarmouth, N.S.; Joshua H. Smith, Windsor Foundry; W. S. Fisher, Enterprise Foundry Company, St. John, N.B.; James Hillis, Halifax, and W. B. Dixon, Enterprise Foundry, Sackville. Other manufacturers expressed regret at their inability to be present.

Letters were read from the manufacturers of the Upper Provinces asking the members of the Maritime Provinces to affiliate with them.

The most important business was the discussion of a proposal to establish a scale of prices on which all manufacturers should base their quotations. The matter was settled satisfactorily, and the different houses will be asked to subscribe to the terms. The following resolution was unanimously adopted:

Whereas, owing to the continued large advance in iron and other material entering into the production of stoves, an advance is absolutely necessary.

Therefore resolved, that from this date all prices of stoves, ranges, furnaces, hollow ware and all other goods made by the members of this association, be advanced 10 per cent., and that each firm notify their travelers and customers of the advance in prices at once.

Moved and seconded, that the cash discount shall, from this date, be limited to 5 per cent., and terms four months, and no goods to be consigned.

The following named officers were elected:

President—Joshua Peters, Moncton.

Vice-president—Charles Fawcett, Sackville.

Secretary-treasurer—W. B. Dixon.

ELECTROPLATING THE HULLS OF VESSELS.

Experiments are being carried out in the United States to test the applicability of electroplating to the hulls of vessels. The hull of a sea-going tug which was electroplated in February, 1895, has recently been examined and found to be free from barnacles or marine growth of any kind. During the past year she has been in the lower waters of the Chesapeake, and while other tugs were hauled out every four weeks, this tug remained constantly at work.—The Engineer.

NO IMPROVEMENT POSSIBLE.

Down in a thriving iron town in the Southwest a wheelman found need for the kindly attention of a repairer. Inquiry soon caused him to learn of an expert in that line, and, seeking his shop, he read over the door thereof the legend: "A. Swindle, Cycle Dealer and Repairer."

After the job had been completed, and the price therefor was found to be extremely moderate, the touring one said:

"Pardon me, sir, but it seems to me that if I were in your place I'd change my sign a bit."

"Would you," wearily replied the proprietor. "How so?"

"Well, I'd have the first name spelled out in full—Arthur, or Andrew, or whatever it might be."

"Well, stranger, my first name is Adam, Now what would you do?"

But the advice-giver had not a word to say. The facts didn't warrant anything further being said.—The Wheel.

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Good Revolver or a
Good Bicycle get an



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GILBERTSONS are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, under the personal supervision of the members of the firm. They are thus able to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"Gilbertson's" Tinplates

made of best Siemens Steel, are soft, extra well coated, noted for deep stamping qualities, and for canners' use have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Ponterdawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S "REGINA" TERNEPLATES

also Imitation Russia Sheets and best Siemens Steel Sheets, cold rolled, cold rolled and close annealed, also pickled.

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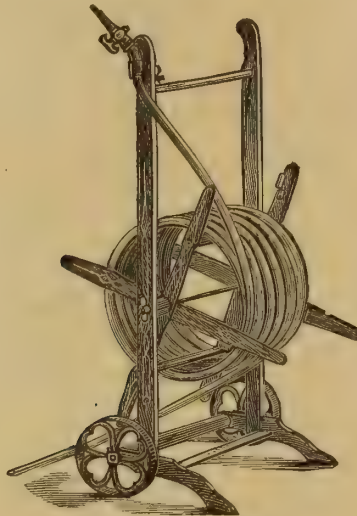
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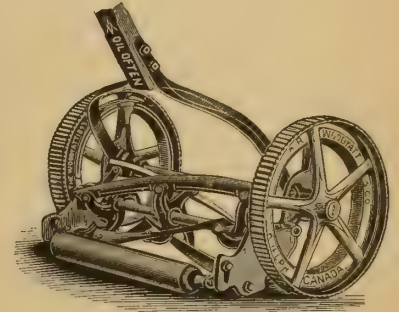
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SYRINGES.

FITTED WITH PATENT AGITATOR.



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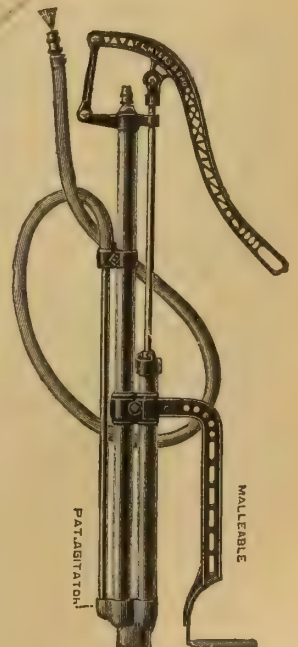
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SEND FOR OUR
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GRAHAM WIRE AND CUT NAILS ARE THE BEST,

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LATEST CATALOGUE.

TRADE CHAT.

COUNTERFEIT 50c. pieces are being circulated in Essex county, Ont. They are reported to be excellently made, but a trifle heavier than the genuine article.

G. Blatchford & Co., organ manufacturers, Elora, Ont., are considering removing to Galt. It is likely exemption from taxes will be offered them.

Geo. Wettlaufer is installing machinery, in Stratford, Ont., for the manufacture of a patent pea harvester and buncher. He expects to make 2,000 machines this season.

At the annual meeting of The Furniture Manufacturers' Exporting Co., of Ontario, S. Snider, Waterloo, was elected president, and J. S. Anthes, Berlin, secretary-treasurer and manager.

David Tolton, of Tolton Bros, agricultural implements, Guelph, Ont., has, since the death of his brother, Andrew Tolton, admitted W. H. Conway and G. A. Dickinson under the old style.

The Syracuse Smelting Works are very busy now. Their works in Montreal are run until 12 o'clock every night. They have received several large orders lately for both babbitt metal and solder.

Mr. J. Brown, accompanied by G. M. Boyd, M.L.A., and Benj. Allen, ex-M.P., visited Owen Sound recently and inspected the site offered by the Grand Trunk Railway for a new blast furnace and steel works.

J. A. Whelpley & Co., skate manufacturers, etc., Greenwich, N.B., have been succeeded by Wm. T. Fanjoy, of St. John, and F. W. Whelpley, Daniel R. Whelpley, Mrs. Alberta E. Whelpley, and Edgar D. Whelpley, all of Greenwich, Kings County, N.B., under the style of The J. A. Whelpley Co., Limited.

The heaviest metal is osmium, which has, bulk for bulk, nearly twice the weight of lead. The specific gravity of gold is about $19\frac{1}{4}$, while that of osmium is about $22\frac{1}{2}$. Osmium is also the most infusible of metals, remaining unaffected by a degree of heat capable of causing platinum to run like water. It even resists the inconceivable temperature of the electric arc.

WILL REMAIN IN ENGLAND.

An English trade paper says: "When the American Screw Co. (whose headquarters are at Providence, Rhode Island), announced a short time ago their determination to give up their British branch, it was feared that the factory in Kirkstall Road, Leeds, might be temporarily closed, or utilized for another purpose. An English syndicate, however, stepped in and purchased the undertaking, with the result that there has been no disturbance of business

or dismissal of hands, which number 350 or so. Nor has the transfer made any change in the title of the concern, which is known as the British Screw Co., Limited. The factory, which was opened in 1891, is a very large one, extending from Kirkstall Road to the banks of the River Aire, a distance of about 200 yards. It is fitted-up with all the machinery that English and American ingenuity can devise, and every conceivable kind of screw for woodwork is turned out, both for the home and colonial markets. The company have also done a great deal of work for the English Government, and only the other day the Admiralty renewed a contract with them."

AN ENGLISH BRASS FIRM'S TRADE WITH CANADA.

Mr. W. Willis Mitchell, representing James Cartland & Son, Limited, of Birmingham, England, is making his second visit to Canada. It is 15 months since he was here last. He has spent the most of this week in Toronto. Since he was here he has made his seventh visit to Australia in the interests of his firm.

Our business in Canada during the past year," said Mr. Mitchell, "has increased nicely. Our company is now paying special attention to the Canadian market in the way of making desirable patterns suitable for your trade. As our factory is one of the largest and most up-to-date in Great Britain, we are in a position to not only make any class of goods in brass ware, but can make prompt shipment."

"What do you mean by prompt shipment?"

"What I mean is that one month after an order has left the Canadian jobber, the goods will be in his hands."

Mr. Willis Mitchell has with him some new patterns since he was here last. After visiting Hamilton and London he returns to the Old Country.

UNITED STATES METAL EXPORTS.


Iron and steel exports have become so important a factor in the foreign trade exhibit that special attention is called to them in the statements given out by the Statistical Bureau of the Treasury Department. The following exhibit of iron and steel imports and exports in the eight-month periods ending with February, in 1897, 1898 and 1899, shows at a glance how great has been the gain in the outward movement and how the imports have been steadily reduced:

	Imports.	Exports.
1897.....	\$10,517,588	\$35,781,809
1898.....	8,397,977	42,864,262
1899.....	7,564,958	58,377,784

Exports of wire nails in eight months of the fiscal year 1898 were 16,138,325 lb.; in eight months of 1899, 28,697,735 lb. Exports of bars or rods of steel increased from 18,720,798 lb. to 37,708,442 lb.; steel plates and sheets, from 13,523,675 lb. to 64,784,626 lb., and wire from 80,056,290 lb. to 126,858,949 lb.—Iron Trade Review.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.


COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.



PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.





COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS.

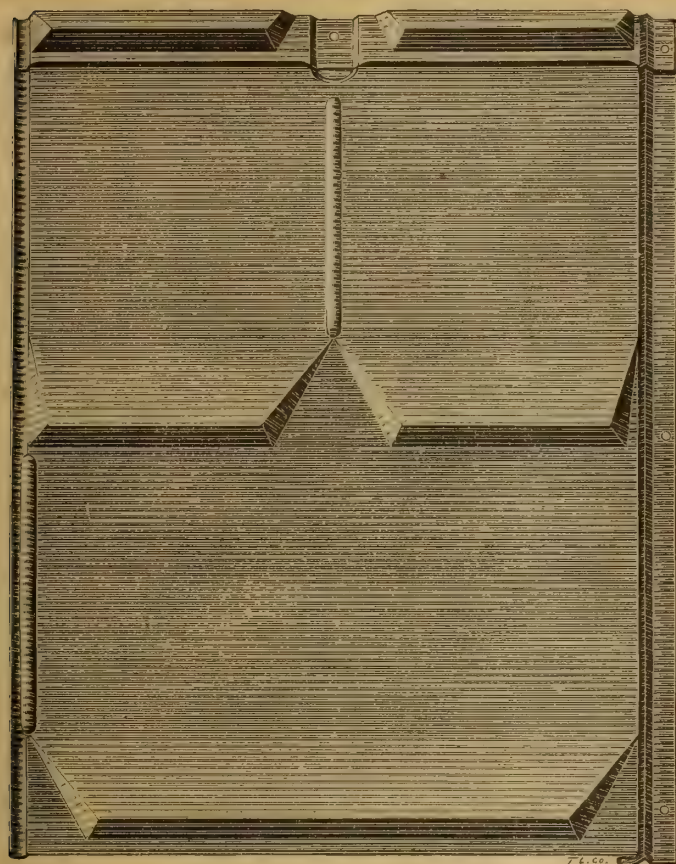
McLushell, Dougall & Co.
Fine Hardware & Japan
Manufacturers.
Montreal
Price Lists on application

Size, $\frac{3}{8}$ -inch.
Cheapest IN THE WORLD.
J. M. LITCHFIELD
458 Quincy St., Brooklyn, N.Y.



The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited





THE

OSHAWA SHINGLE.

This is the newest and most complete Steel Shingle on the market. Originally it was created for use on the best class of buildings, but since its introduction—and great success—we have perfected its manufacture so that we are now able to offer it at a price that will compete with inferior articles. This shingle does away with the objectionable “cleat,” it being so constructed that it will lock all around, thereby forming an absolute protection from drifting rain and snow.

This shingle is sold on its merits, and we will gladly ship you a trial order on the condition that if it is not the **MOST PRACTICAL AND COMPLETE STEEL SHINGLE ON THE MARKET** they may be returned at our expense.

Manufactured only by the

Pedlar People

OSHAWA, ONT.

Branch at 22 Victoria Square, Montreal, Que.

LUXFER PRISMS

CARRY DAYLIGHT
with wonderful success.

All progressive business men recognize their value.

“The most useful, and the most profitable improvement you can put into commercial premises.”



EATON'S—WITH PRISMS



EATON'S—WITHOUT PRISMS

Send for Descriptive Booklet to . . .

The Luxfer Prism Company

Limited

58 Yonge Street

Toronto.

Installation at premises of
The T. Eaton Co., Limited } A STORY WITHOUT WORDS.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE WEEK'S IRON TRADE IN THE UNITED STATES.

ANOTHER week of comparative quiet has come to the iron trade, but without any development tending to change the situation materially or pointing to anything but a continuingly firm market. The fact that mills are crowded, and that many of them are even less able to care for immediate orders than in earlier weeks of the year, owing to spring specifications, is one side of the present lull; on the other side is the probability that some buyers anticipated their wants, in their purchases and specifications of some weeks ago, and accumulated some material against the spring rush. It is true, too, that the condition of affairs at the mills is now so thoroughly known that buyers for the time being are letting them alone. Pig iron stocks are the only statistical gauge of consumption. These, taken in connection with blast furnace production reports, indicate that in March consumption reached high-water mark. Stocks at furnace yards were lowered 115,000 tons last month, and the net withdrawals from warrant yards were 16,000 tons more. Production passed from a rate of 228,195 tons a week on March 1 to 245,746 tons on April 1, so that the weekly average in March was between the two figures. The apparent consumption in March was thus not far from 1,175,000 tons, or at the rate of nearly 14,000,000 tons a year. * * * The scarcity of steel is still commented upon by mills that buy billets and sheet bars. Central Western steel works, closely sold as they are for the second quarter, and with so large a proportion of their product placed in advance with allied interests, now that the American Steel Hoop Co. has become operative, are in a position which promises no immediate change from the present piece basis. The demand for every form of Bessemer steel is so insistent that every converter will be kept blowing to its utmost capacity for the balance of the year. Sales of billets at \$25.50 Pittsburgh are reported, and even higher figures have been reached for prompt steel. Pittsburgh mills have had a quiet week, so far as regards new business; but, with the exception of the wider sizes in structural material, are able to entertain practically nothing that calls for early delivery. Chicago has had a steady run of structural business, and reports 5,000 to 6,000 tons additional this week. The rail mills can take very little more for 1899 delivery. The 75,000-ton contract, reported taken by the Maryland Steel Co. for the Chinese Eastern road is only the familiar 80,000-ton Trans-

Siberian order of some months ago, reduced by 5,000 tons when the business came to be placed finally, after having been once canceled. The cast iron pipe consolidation has made some bids at Chicago and Detroit the past week, that show an advance of \$7.50 a ton over last year's low prices. Apart from advances in pig iron and labor, this represents about \$3 net to the company, above the old basis.

A MONTH IN THE COPPER TRADE.

JAMES LEWIS & SON report as follows under date of Liverpool, April 4: The market for standard copper has been subject to violent fluctuations during the past month—the result of speculative operations. From £72 10s. on the 2nd ulto., the price fell to £69 10s. on the 6th, recovered to £71 on the 8th, and then declined rapidly to £66 5s. on the 14th, advancing again to £69 7s. 6d. on the 16th, only to fall again to £66 7s. 6d. on the 24th. Large purchases, believed to be made as “cover” against the sale of 2,000 tons of wire by a French firm, and also in support of copper shares, forced values up £3 per ton on the 27th—to £69 12s. 6d. for May delivery. Up to £70 was paid next day for three months' prompt, and, although copper was freely offered, it was eagerly taken by a leading American firm, values were consequently maintained between £69 and £70, the market closing at the latter price for all positions before the holidays. Transactions total about 53,000 tons for the month. A large business is reported to have been done in high conductivity copper wire for delivery over a lengthy period, but consumers of refined copper hold aloof and only buy when absolutely compelled by their requirements, as they consider with the prospect of steadily increasing supplies from all quarters the present high level of prices cannot long be maintained, and will be followed by a much lower range of values. Manufactured copper has been very slow of sale, there being no demand for export, while for ship-building purposes the consumption will be greatly diminished, only 7,000 tons of new steamships having been contracted for on the Clyde during March, against 17,000 tons in February and 28,000 tons in January—a total of 50,000 tons for the quarter, against 236,000 tons for the same period last year.

HANDICAPPED BY UNSALABLE GOODS.

Very few retail merchants realize the constantly increasing cost of some portions of their stock, which is daily, monthly and yearly growing in amount because original figures are adhered to for selling

prices, regardless of the fact that certain articles, by lack of popularity, or because they already had their day, are worth less than their first cost. The tenacity with which some merchants hang on to old goods year after year, inventoring them at the original cost, instead of present value, is certainly worthy of a better cause.

An article costing originally \$10, taking the value of money at ordinary interest rates, would stand at the end of the second year at about \$11, at the end of the fifth year \$13, and so on, each succeeding year piling up the cost, in that the money represented has not been earning an interest or a profit elsewhere, and therefore it would be charged to the goods. Meanwhile, the goods are diminishing in value, compared with original figures, in a more rapid ratio than their cost is piling up.

If the merchant had sacrificed the article the first year for eight dollars, the loss on the transaction at the end of five years, using the same interest calculation as before, would amount to only \$2.75; but the \$8 at the usual percentage of profit would have earned much more than this. By comparison, the oft-quoted saying, “We got our money back anyway,” uttered by those who hold an article for several years and then sell it at its original cost, becomes extremely ridiculous.

Carrying a stock of dead or unsalable goods locks up so much capital in trade that the merchant often finds himself unable to take advantage of the usual cash discounts. This means that goods otherwise costing him \$10, less 7 per cent., for quick money, or \$9.30 net, will stand him \$10 net. His reputation of being a close cash buyer is thus lost, and the consequence of a considerable amount of dead stock on the shelves is that the merchant is obliged to pay long prices for all his goods.

Merchants who get into this position are no longer sought after by wholesalers when there are special bargains to be offered, for at such times only strict cash buyers are approached. This frequently means in a given community that the merchant's competitors can sell certain goods and make reasonable profits at prices that represent actual cost to him. Putting the knife into the prices of unsalable goods, and getting rid of them, is the only way to conduct a successful business. The first loss on unsalable articles is always the smallest loss. —C. H. Arnold.

W. C. Crawford, hardware dealer, Tilbury, Ont., is adding drygoods, groceries, boots and shoes, etc., to his business. This has necessitated a large addition to his premises.

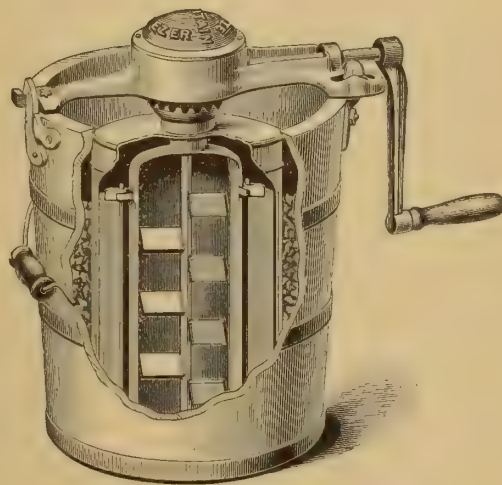
EVERY GOOD THING

PERTAINING TO

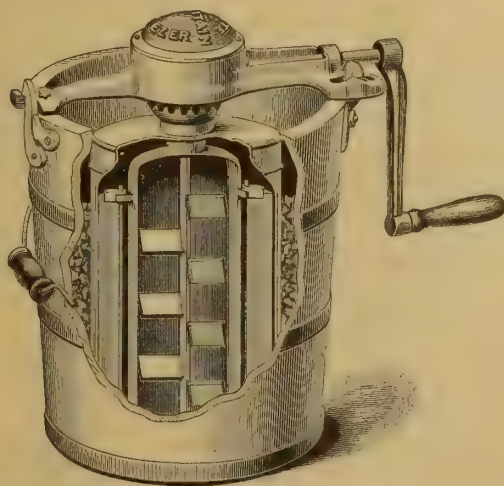
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE MCCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N.H., U.S.A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL, April 21, 1899.

HARDWARE.

WHILE general business in hardware cannot be called active, there is still a fair volume of trade moving. Values continue to reflect an advancing tendency, as demonstrated by further appreciation in leading staples this week. Barbed wire is 25c. per 100 lb. higher, and plain wire is pointing higher in sympathy with the advance in the United States, though quotations are not actually altered yet. Wire nails are rather quiet, while cut nails are stiff at the advance noted last week. Horseshoes and horsenails encounter a fair demand. Tacks are fairly active and steady, and a good business is doing in screws, bolts and rivets. Cordage is quiet but very firm.

BARBED WIRE—There has been another advance in barbed wire, prices being 25c. above where they were last week, at a base price of \$3 f.o.b. Montreal, and a further rise is predicted. Demand continues quiet.

SMOOTH STEEL WIRE—Business is quiet

in smooth wire, and values are unchanged at \$2.50 for Nos. 6 to 9, the base numbers.

FINE STEEL WIRE—Trading is inactive in fine steel wire, and values are the same, with discounts 25 per cent. off list.

FENCE STAPLES—Steady, with a moderate inquiry. We quote: Galvanized, \$3.15, and bright, \$2.75.

OTHER STAPLES—As last reported. Cooper and poultry netting 15 per cent.; electrical, broom, bed, etc., 10 per cent.

WIRE NAILS—Business rules on the quiet side, and prices are steady, ranging from \$2.50 to \$2.60 as to quantity.

CUT NAILS—Demand since the advance has been moderate. We quote: \$2.05 f.o.b. Montreal, Toronto, Hamilton, London, and St. John, N.B., with the usual rebate of 5c. allowed to regular merchants.

ESCUTCHEON PINS—Steady. Brass 60 per cent. and steel 45 per cent.

PRESSED SPIKES—Without change, discounts being 40 per cent.

GALVANIZED ROOFING NAILS—In fair demand and steady at 8c. per lb. with 25 per cent. discount.

HORSESHOES—Firm at the rise, with a fair inquiry. We quote: Iron horseshoes, light and medium pattern, No. 2 and larger \$3.25; No. 1 and smaller, \$3.50; snow shoes, No. 2 and larger \$3.50; No. 1 and smaller, \$3.75; XL steel shoes, new light pattern, No. 2 and larger, \$3.50; No. 1 and smaller, \$3.75; featherweight, all sizes, Nos. 0 to 4, \$4.75; and toe weight steel shoes, all forward, all sizes \$5.75 f.o.b., Montreal, Toronto, Hamilton, London and Guelph 10c. extra per 100 lb.

HORSE NAILS—Business quiet and prices steady. Standard brands 50 per cent., and Acadian 50 and 20 per cent.

TACKS—Moderate business doing. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED CARPET TACKS—Steady at the advance: In dozens, 85 and 25 per cent.; in bulk, 10 per cent. off list.

SCREWS—A good trade is noted in screws. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and

Wickless BLUE FLAME Oil Stoves BURN COAL OIL

The Valves are of a material that cannot corrode, thus insuring permanent control of the stove.

Our Patent Sight Feed is a revelation, being a wonderfully simple arrangement for measuring and supplying just sufficient oil to suit the user. It always has in readiness, just enough oil (by measure) to start the burner.

To Light the Stove—Open the small valve below the sight feed to let the measured oil into the burner; then close it, light the burner, and at the same time turn on whatever amount of oil you wish. The stove is *instantly started* and no further attention is necessary.

The Oil thus started, burns with a clear blue flame, **without smoke**, and gives a heat of the greatest intensity.

The Steel Frame is strong, and is handsomely striped with gold.

It Makes No Difference whether the oil is good or bad, heavy or light, thick or thin, hot or cold, the stove works equally well, producing an intensely hot, smokeless, blue flame.

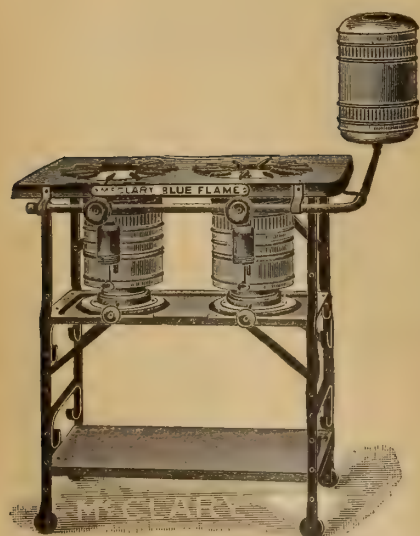
Turn on the Oil. Touch a Match.
The Burner Does the Rest.
Cooks Instantly. No Delays.

Special list on application.

When you want your goods quickly, order from McClarys.

DESCRIPTION.—They have no wicks and are thus easily kept clean.

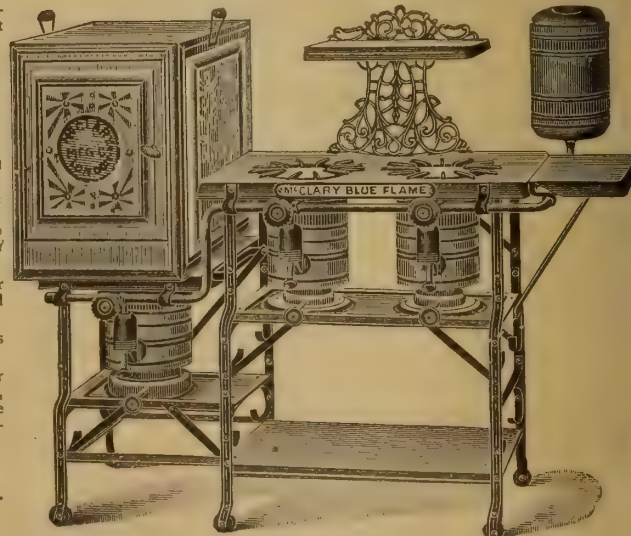
The Oil Tank is made of polished brass and is placed at the back of stove, away from any heat. It is of a telescopic pattern, and has an automatic valve which admits only the required amount of oil to the stove at a time. The removable inner tank can be carried away for re-filling, while the stove is still burning, without danger. The stove will continue to operate for more than half an hour without the oil tank in its place.



NO. 04-2 BURNERS, HIGH FRAME.

Mounted on Casters.

Height, 27 inches. Size of top, 17x25 inches. Weight, crated, 40 pounds.



NO. 06-3 BURNERS, WITH STEP.

Mounted on Casters.

With Ornamental Back Shelf and Broad End Shelf. 13-inch burner under step.

Height, 27 inches. Size of top, 17x25 inches. Size of step, 14½x17 inches. Weight crated, 65 pounds.

THE McCLARY MFG. CO.

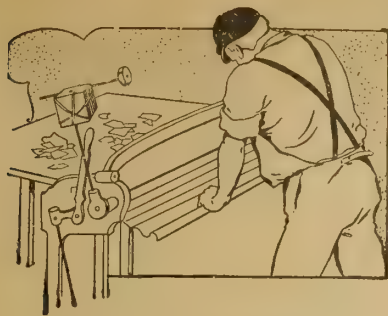
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



There is no uniform galvanized iron, except Apollo Best Bloom.

This is not an accident.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

5; flat head, brass, 75 and 5; round head
do., 67½ and 5.

BOLTS—An active demand is noted.
Discounts are: Carriage bolts, 5-16 and
smaller, 60 per cent., and ¾ and larger,
55 per cent.; machine bolts, 60 per cent.;
coach screws, 75 per cent., and sleighshoe
bolts, 75 per cent.

RIVETS—Business is fairly active, while
copper rivets are higher. Discount on black
and tinned rivets 55 per cent.; ditto burrs
50 per cent., while copper rivets and burrs
are 35 per cent.

CORDAGE—A steady business is doing in
rope and we quote sisal 10¼c. for 7-16 and
larger, and manila 10¼c.

SHOT—Steady at 6c. for ordinary, and
6½c. for chilled.

CEMENT—Only a few small lots are mov-
ing. We quote: Belgian, \$1.90 to \$2.10; ;
English, \$2.30 to \$2.40; and German, \$2.45
to \$2.65 per cask ex wharf.

FIREBRICKS—Fairly active and steady, at
\$19 to \$26 ex store and \$17 to \$23 ex
wharf to arrive.

METALS.

The metal market is firm, further appre-
ciation being noted in several important
lines of heavy steel, while bar iron is held
higher than last week.

PIG IRON—The strength of the market
continues quite marked, and business in
straight lots of Scotch pig have been trans-
acted at \$21, while No. 1 Hamilton iron is
offered at \$17 to \$18.

BAR IRON—There has been another ad-
vance in bar iron, which is now quoted 5c.
higher, at \$1.70, in car lots and \$1.75 in
smaller quantities f.o.b. Montreal.

HOOP IRON—Firm at the rise with a fair
demand, \$2.65 to \$2.70.

STEEL—The advancing tendency of all
steel values continues, sleighshoe, tire,
spring, machinery and toe calk steel all be-
ing firmer. We quote: sleighshoe, \$2.40;
tire, \$2.40; spring and machinery steel
\$2.50, and toe calk, \$2.80.

GALVANIZED IRON—A good demand,
both from stock and for importation is noted.
We quote: \$4.75 to \$5 for No. 28 "Queen's
Head," with "Comet" \$4.35 to \$4.55.

INGOT COPPER—Values on outside
markets continue to rise and prices are firmly
held here at 19c.

SHEET COPPER—Meets a fair demand
and is steady at 25c. for plain and 27c. for
tinned.

INGOT TIN—This metal also has been
advancing outside, and spot prices are firm
at 29c.

PIG LEAD—Firm, but quiet at 4½ to 4¼c.
LEAD PIPE—Stiff at 7c. for ordinary,
and 7½c. for composition waste, with 17½
per cent. discount to the trade.

IRON PIPE—Very firm in its tendency.

Tinplates

"LYDBROOK" Best Coke.

"The Cannery's Favorite."

"ALLWAYS"

The Best Charcoal.

"Standard of the world."

Import only.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a sav-
ing of a gross of screws on every six
dozen Pulleys.

THEY can be applied quicker than any other
Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box.

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

We quote as follows : Black pipe, $\frac{1}{4}$ -inch, \$2.90 ; $\frac{3}{8}$ -inch, \$2.90 ; $\frac{1}{2}$ -inch, \$2.75 ; $\frac{3}{4}$ -inch, \$3.10 ; 1-inch, \$4.40 ; $1\frac{1}{4}$ -inch, \$5.90 ; $1\frac{1}{2}$ -inch \$7.15, and 2-inch, \$9.70. Galvanized pipe, $\frac{3}{8}$ -inch, \$5.55 ; $\frac{1}{2}$ -inch, \$5.90 ; $\frac{3}{4}$ -inch, \$6.55 ; 1-inch, \$8.95 ; $1\frac{1}{4}$ -inch, \$12.40 ; $1\frac{1}{2}$ -inch, \$15.15, and 2-inch, \$20.30.

CANADA PLATES—There is a fair demand for these. We quote : 52's, \$2.25 to \$2.30 ; 60's \$2.35 to \$2.40 ; 75's, \$2.45 to \$2.50 ; full polished, \$3.10 ; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—In good inquiry for forward delivery. We quote : Coke, I. C., \$3.25 ; charcoal, I. C., Allaway or Comet brands, \$3.50 ; do. I. X., \$4.25 ; Lincoln, \$3.75 ; P. D. Crown, \$4 ; do. I. X., \$5 ; Bradley's, \$5.80.

TERNE PLATE—Steady, with a moderate demand at \$6.25. base.

COIL CHAIN—Very firmly held, and spot prices are expected to advance shortly. We quote : No. 6, $9\frac{3}{4}$ c. ; No. 5, $8\frac{1}{4}$ c. ; No. 4, $7\frac{1}{2}$ c., and No. 3, $6\frac{1}{2}$ c. per lb. ; $\frac{1}{4}$ -inch, \$5.50 ; 5-16 \$4.25 ; $\frac{3}{8}$, \$3.85 ; 7-16, \$3.70 ; $\frac{1}{2}$, \$3.55 ; 9-16, \$3.40 ; $\frac{5}{8}$, \$3.25 ; $\frac{3}{4}$, \$3.15, and $\frac{7}{8}$, \$3.00 per 100 lb.

SHEET ZINC—Firm, with a fair inquiry at 8 to $8\frac{1}{4}$ c.

ANTIMONY—Steady, but quiet at 10 to 11c.

SPELTER—Firmly held at \$6.75 for V.M., and \$6.50 for S.S.

GLASS.

There is a moderate business doing in window glass. We quote: First break, \$1.80 ; second, \$1.90 per 50 feet ; first break per 100 feet, \$3.50 ; second, \$3.75 ; third, \$4 ; fourth, \$4.25 ; fifth, \$4.75 ; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

There has been a fair trade in paints and oils during the week, but business has not assumed its full dimensions yet. All lines are without change, as quoted last week.

WHITE LEAD—Best brands, Government standard, \$5.87 $\frac{1}{2}$; No. 1, \$5.50 ; No. 2, \$5.12 $\frac{1}{2}$; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks ; kegs, \$5.

RED LEAD—Firm ; casks, \$4.75 ; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c. ; No. 1, $5\frac{1}{2}$ c. ; in oil, pure, 8c. ; No. 1, $6\frac{1}{2}$ c.

PUTTY—We quote : Bulk, \$1.65 ; bladders, in bbls., \$1.80 ; bladders, in cases, \$1.95 ; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c. ; boiled, 54c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 68c. ; two to four-barrel lots, 1c. less, five barrels

and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady ; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at $37\frac{1}{2}$ to 42c.

NAVAL STORES—No new feature to note.

We quote as follows : Resins, \$2.75 to \$4.50, as to brand ; coal tar, \$3 to \$3.50 ; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white ; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote : 250-lb. casks, $13\frac{1}{2}$ c. ; 50-lb. drums, 14c. ; 1-lb. packages, 15c. ; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c. ; 1-lb. tins, $15\frac{1}{2}$ c.

MONTREAL NOTES.

Barbed wire has advanced another 25c. per 100 lb.

Heavy steel is 5c. higher than last week all round.

Copper rivets and burrs have been marked up 5 per cent.

The base price on bar iron has been advanced 5c. per 100 lb. to \$1.70 to \$1.75.

ONTARIO MARKETS.

TORONTO, April 21, 1899.

HARDWARE.

WHAT with new orders and shipping out those which had been previously placed, the wholesale hardwaremen in Toronto are this week decidedly busy. The shipping-rooms are particularly the scene of a great deal of bustle. In prices, the most important change is in barbed wire, which has been advanced to \$2.90 per 100 lb. Wire nails are unchanged, but the feeling is decidedly firm, although the volume of business is not large. Cut nails are in moderate demand. Horse nails and horseshoes are meeting with just a fair demand. Smooth steel wire is quiet. There is a good trade doing in screws, and the same is to be said of bolts. Rivets and burrs are in moderate request. Rope is firm and unchanged, with a fair amount of business being done. Churns and wringers are going out fairly well. A good movement is reported this week in building paper. The demand for both tinware and granite-ware is brisk. Large shipments are being made in eavetroughing. A good many spades and shovels are going out, and, in general, trade is in a satisfactory condition.

BARBED WIRE—There has been another advance in the price of barbed wire this week, and \$2.90 f.o.b. Toronto, with 2 per cent. off 10 days, now represents the ruling price, although some dealers have advanced their figures to \$3.05. There is also some

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery.

JOHN OAKEY & SONS LIMITED

Manufacturers of Emery, Black Lead, Emery and Glass Cloths and Papers, etc.

Wellington Mills, London, England

REPRESENTATIVE IN CANADA:

JOHN FORMAN, 650 Craig Street
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FOR

Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps

Everything in the stamp line

SEND TO THE

Hamilton Stamp & Stencil

DATER. 25c. Works, Hamilton, Ont.

Steel Tray Wheelbarrows

Tubular
Meaford (Columbus)
Railroad or Navvy

With Steel Trays (Pan American).

Eastern Agent

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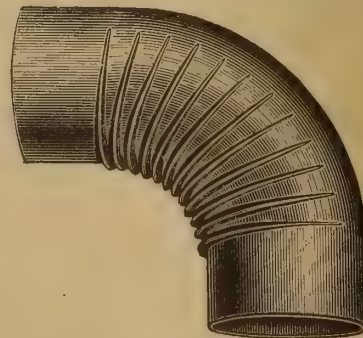
22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

E. T. Wright & Co.

Manufacturers and sole owners

SCHIEPE'S PATENT STOVE PIPE
AND COOPER'S ONE-PIECE ELBOW.



Manufacturers of Bird Cages,
Lanterns, and full line of
Tinware.

HAMILTON, ONT.

Send for New Catalogue.

difference in the quotation on staples, some quoting \$2.75 to \$3, while others are demanding 25c. more than these figures. There is not much doing in barbed wire, heavy purchases having been made some time ago. We quote f.o.b. Toronto: Barbed wire, \$2.90 per 100 lb.; safety barbed wire, \$3; plain twist, \$2.90. Staples are quoted at \$3 to \$3.25 for galvanized, and \$2.75 to \$3 for bright. Terms, 2 per cent. off 10 days.

SMOOTH STEEL WIRE—There are no new features in this line, business being only quiet and prices are unchanged. A couple of our subscribers have written complaining that we do not quote oiled and annealed. Oiled and annealed is included under the classification of smooth steel wire, as we noted some time ago. The extras will hereafter be found in our "Prices Current." The base price is unchanged at \$2.50 factory points. The list of extras is as follows: Nos. 2 to 5, advance 7c. per 100 lb.; Nos. 6 to 9, base; No. 10, advance 7c.; No. 11, 14c.; No. 12, 20c.; No. 13, 35c.; No. 14, 47c.; No. 15, 60c.; No. 16, 75c. Extras net per 100 lb.: Coppered wire, 60c.; tinned wire, \$2; oiling, 10c.; special hay-baling wire, 30c.; spring wire, \$1; best steel wire, 75c.; bright soft drawn, 15c.; in 50 and 100-lb. bundles net, 10c.; in 25-lb. bundles net, 15c.; packed in casks or cases, 15c.; bagging or papering, 10c.

FINE STEEL WIRE—Business is quiet and the discount unchanged at 25 per cent. f.o.b. factory point.

WIRE NAILS—The volume of business is still moderate in wire nails, and the price firm at \$2.55 Toronto and west.

CUT NAILS—The market is firm at the advance of last week, and business is rather quiet. We quote the base price at \$2.05 f.o.b. Toronto, Hamilton and London, with the usual 5c. per keg rebate.

HORSE NAILS—Business is still quiet and without feature. We quote: Standard, oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—Business in this line is still only moderate, and prices are firm at the recent advance. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 1 and larger, light, medium and heavy iron shoes, \$2.35; snow shoes, \$3.60; light steel shoes, \$3.60; feather-weight shoes, all sizes, \$4.85. No. 1 and smaller, light, medium and heavy iron shoes, \$3.60 per keg; iron snow shoes, \$3.85; light steel shoes, \$3.85; feather-weight steel shoes, all sizes, \$4.85; toe weight, steel, is quoted at \$5.85 f.o.b. Toronto, Hamilton, London and Guelph.

SCREWS—Trade in this line continues active, with prices firm. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head



HAYES' PATENT LATHING

has been proved more economical in the end than lower priced ones.

By an actual test it has been found to require 60 per cent. less mortar than others—and owing to its rigidity can be more quickly and easily applied, thus saving time and labor.

In addition to its economy—it gives the most enduring satisfaction, clinching and holding the mortar firmly, and is fire, water, and vermin proof.

Full information in our catalogue. Will it interest you?

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—The demand for bolts is good, and the manufacturers are taxed to their utmost to fill orders. We quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—Are in fair demand at firm and unchanged prices. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—A good business is reported this week and the price of hemp continues firm. We quote: Sisal, 7-16 in. and larger, 10c. per lb.; ¾ in., 10½c.; ¼ and 5-16 in., 11c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. New Zealand rope has been advanced to 9½c. per lb. Other quotations are: Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business is good and a good many shipments are being made. No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.35; No. 5, \$5.75.

WRINGERS—A nice business is being done in this line. The discount is 45 per cent. List prices of the different makes furnished on application.

BUILDING PAPER—The demand has improved during the past week, and quite a good business is being done. A good many lots are being sent forward. We quote as follows: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

WARE—There is an active demand both for enameled ware and tinware at firm prices.

GAS AND OIL STOVES—There is not a great deal being done. Dealers have already their first stocks in hand, and until these are worked off not much new business is expected.

GREEN WIRE CLOTH—Business continues to be fairly brisk with prices firm, at \$1.20 per 100 square feet net.

POULTRY NETTING—The demand continues good and prices firm. Discount, 50 and 5 per cent.

EAVETROUGHS—Shipments in this line have been going out freely during the past week. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—The demand for this line is active, and prices are firm at the advance. Discount, 40 and 5 per cent.

GALVANIZED BUCKETS—Jobbers are issuing the new price lists this week, showing the advances which were referred to in our last issue. We now quote as follows:

Straight pattern, No. 12, \$2; No. 14, \$2.25; No. 16, \$2.55. Flaring pattern, No. 11, \$2.25; No. 12, \$2.50; No. 13, \$2.85; No. 14, \$3.30.

SADDLERY HARDWARE AND HARNESS—An agreement has been arrived at between the manufacturers and jobbers, whereby the terms are now made uniform at 90 days, or 3 per cent. 30 days. Although the list is only issued this week, the new terms are to date from March 20.

LEATHER BELTING—Trade is brisk and prices firm. We quote: Extra, 50 per cent.; Standard, 50 and 10 to 50 and 5 per cent.; lace, 70 to 75c. per lb.

CEMENT—A brisk demand is reported. Prices are firm. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The metal market continues fairly active, with prices firm. The principal changes in prices are advances of $\frac{1}{4}$ c. per lb. in ingot copper, of 40c. per 100 lb. in coil chain, and of 5c. per 100 lb. in bar iron.

PIG IRON—The market is firm, but without any material change, and there is very little business being done. We hear of a quotation for No. 2 foundry pig iron of American make at \$16.50 Toronto, in bond. This would be equal to \$19.20, duty paid. Southern iron, at present quotations, would cost about \$16.75 in bond.

BAR IRON—There has been another advance of 5c. per 100 lb. in prices, the base price now being \$1.70 from factory and \$1.75 from stock.

BLACK SHEETS—The demand continues good and prices unchanged. We still quote 28 gauge at \$2.85 per 100 lb.

GALVANIZED IRON—Quite a few orders for importations are still being booked, and shipments are being freely made from stock. Some of the orders which have been received during the past week have been for large quantities. In case lots, we quote the different brands of 28 gauge as follows: "Queen's Head," \$4.75; American, \$4.50, and "Gordon Crown," \$4.50.

COPPER—There has been another advance in the price of ingot copper on the local market, jobbers now asking 19 to 19 $\frac{1}{2}$ c. The outside markets during the past week have ruled fairly steady. The London market closed on Tuesday nearly £3 per ton higher than four or five days before. In New York, however, there has been very little change. A fair business is being done in sheet and braziers'.

PIG TIN—The market shows a further appreciation in prices. In New York the

figures are about 25c. higher than they were at time of last review, while in London there has been an advance of over £1 7s. per ton. There is a good business being done on the local market.

TIN PLATES—Trade is still fair, and a further appreciation in values is looked for.

TIN SHEETS—The demand has fallen off, and business is now only moderate.

CANADA PLATES—Orders are still being booked for import, but shipments are light. We quote: All dull, \$2.50 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

PIG LEAD—The demand is good and prices are firm at \$4.25 to \$4.50.

LEAD PIPE—Business is good and prices unchanged. We quote: Ordinary pipe, 7c.; waste, 7 $\frac{1}{2}$ c. Discount, 17 $\frac{1}{2}$ per cent.

IRON PIPE—An active trade is being done and prices are decidedly strong, and it is quite possible that another advance will have to be reported before long. We quote as follows: Wrought pipe— $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch, \$2.85; $\frac{3}{4}$ inch, \$3.15; 1 inch, \$4.50; 1 $\frac{1}{4}$ inch, \$6; 1 $\frac{1}{2}$ inch, \$7.40; 2 inch, \$9.90; larger sizes 70 per cent. discount. Galvanized pipe: $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch, \$5.60; $\frac{3}{4}$ inch, \$6.10; 1 inch, \$8.70; 1 $\frac{1}{4}$ inch, \$12; 1 $\frac{1}{2}$ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—A good many of these are going out, and prices are strong at quotations. Dealers are looking for another advance in prices. We quote: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

COIL CHAIN—There has been another advance in the price of coil chain of 40c. per 100 lb., and we now quote as follows: $\frac{1}{4}$ in., \$6.90; 5-16 in., \$4.40; $\frac{3}{8}$ in., \$4; 7-16 in., \$3.80; $\frac{1}{2}$ in., \$2.75; $\frac{5}{8}$ in., \$3.55; $\frac{3}{4}$ in., \$3.45.

SHEET ZINC—The demand is a little more active, and prices are firm at 8 to 8 $\frac{1}{4}$ c. for cask lots.

SPELTER—Trade in this line continues fair with the outside markets ruling steady at 7 $\frac{1}{4}$ to 7 $\frac{1}{2}$ c. per lb.

SOLDER—The demand for solder continues good and prices are unchanged and firm. We quote: Half and half, 17 $\frac{3}{4}$ to 18 $\frac{1}{4}$ c.; refined, 17 $\frac{1}{4}$ to 17 $\frac{3}{4}$ c.; wiping, 16 to 16 $\frac{1}{2}$ c. per lb.

ANTIMONY—Trade has improved during the past week, and a fairly good business is being done. We still quote 11 to 11 $\frac{1}{2}$ c. per lb. for Cookson's.

PAINTS AND OILS.

General sorting orders are starting to come in at a brisk rate. White zinc has advanced at primary points, so the price here has been raised to \$6, an advance of

75c. to \$1 per 100 lb. Whiting is very scarce, and the price of large lots has been advanced 5c. The near approach of the new turpentine season has weakened the market considerably, and a decline of 3c. is noted this week. Linseed oil, white lead and red lead are firm, but without change. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62 $\frac{1}{2}$; No. 2, \$5.25 7 No. 3, \$4.87 $\frac{1}{2}$; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6 $\frac{1}{2}$ c.; orange mineral, 7 $\frac{1}{2}$ to 8 $\frac{1}{2}$ c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 64c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The arrival of early import orders of window glass for sorting up has relieved the scarcity of many sizes, and now orders can be filled more thoroughly. Prices are unchanged. There is a quiet movement of plate glass, but the demand for leaded and ornamental glass is dull. We quote window glass: Star, first break in 50-foot boxes,

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO. - MONTREAL.

\$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL

There is no change. The demand is brisk throughout. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 42½c. 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES -- The feeling continues easy. We quote cowhides as follows: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c.; Steer hides are worth ½c. more. Cured hides are worth 8¾c.

SKINS—There is a good supply of calfskins at steady prices. We quote as follows: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Offerings of sheepskins and lambskins have fallen off, few now coming in. Prices are firm at 90c. to \$1.

WOOL — Fleece is easy and unchanged at 13 to 14c., and unwashed at 8 to 8½c.

SEEDS.

Deliveries have been more liberal the past week. The firmness of last week has given way, and a decline of 25c. is noted for red clover, which is now steady at \$3 to \$3.50, on board at outside points. Alsike is easy at \$2.50 to \$4 outside. There is considerable jobbing being done at 40 to 50c. advance on the above figures, which advance covers freight, cleaning and handling.

COAL.

There is little doing. Prices are steady, but unchanged. We quote anthracite at Buffalo and bridges as follows: Nut, \$4.75 per gross ton, or \$4.24 per net ton; egg and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

PETROLEUM.

A fair movement is reported. Prices are unchanged. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

Ingot copper is quoted ¼c. per lb. higher.

J. T. Craig, representing D. K. McLaren,

16 Governments.
85% B.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76,800 Daily Production.
5 Factories.
5 Brands.

For Sale all over the world.

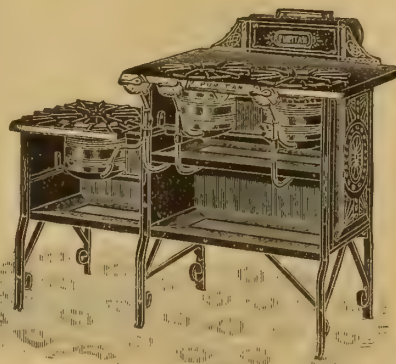
BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETTÉ**," suitable for Advertising Tablets, Signs, Facias, Direct on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

Puritan Wickless Blue Flame.



**This is the only Wickless
Blue Flame Oil Stove that
has given satisfaction. . . .**

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East TORONTO.

leather belting, has removed his office from 77 Bay street to No. 80, the same street.

White zinc has advanced 75c. to \$1. per 100 lb.

Whiting in large lots has advanced 5c. per 100 lb.

Bar iron has been advanced another 5c. per 100 lb.

An advance of 40c. per 100 lb. is announced in coil chain.

The manufacturers in England have advanced the price of coil and trace chain.

Stewart & Wood have received 1,200 boxes of "Bugle" brand window glass for sorting up.

Turpentine has been reduced 3c. per gallon, and is now quoted at 63c. in Toronto and 64c. in western Ontario.

The address of the Chicago office of the Magnolia Metal Co. has been changed from Trader's building to the Fisher building, 281 Dearborn street.

HAS STARTED OUT FOR HIMSELF.

R. S. Hannah, who has been with James Wright & Co., London, Ont., for a number of years, has started into business on his own account, having bought the hardware stock and business of The O'Dell Hardware Co., Mitchell, Ont. **HARDWARE AND METAL** wishes Mr. Hannah success.

A HARDWARE FAILURE.

A meeting of the creditors of Wesley Bingham, hardware merchant, Lindsay, was held in Toronto on Thursday. The statement showed liabilities of \$4,257, and assets of \$4,596, leaving a nominal surplus of \$339.18. The assets consist of stock-in-trade, \$4,411; book accounts, \$67.35, and cash sales, \$117.50. The stock is advertised for sale by tender. Mr. Bingham has only been in business about 18 months.

The style of G. T. Somers, banker, Beeton, Ont., has been changed to G. T. Somers & Co., and a branch has been opened at Cookstown, Ont.

MANITOBA MARKETS.

WINNIPEG, April 18, 1899.

QUITE a number of changes are again reported for the week, noticeably a further advance in both cut and wire nails and wrought iron pipe. Shovels have also advanced 60c. per doz.

Business continues very good, the trade in bicycles is large and increasing, though, so far, there has been little weather suitable for riding.

A good deal of interest is being taken just now in the tenders for the new city water-works. One firm secured a contract for pumps amounting to \$90,000, while The National Meter Co., New York, secured a \$37,000 contract for water meters. The number ordered was 2,310, and it is claimed that this is the largest individual order ever given for water meters. The kind ordered was the "Empire," the idea being that this style will suffer the least damage from frost, a very important item in Winnipeg, where it is not unusual for the frost to penetrate eight feet. This week there is great activity in the tendering for the electric lighting plant. No less than eight companies have representatives here. Just now, the lives of the members of the fire, water, and light committee are a burden to them.

There is now no question that we are to have a late spring. We have reached April 17, and very little ploughing or seeding has been done. The general hope is that, the cold weather having lasted so far into the season, the warm weather will continue unbroken when it arrives.

The ice is moving out of the rivers quite rapidly, but, so far, there are no indications of a flood.

The price list, corrected to date, is given below. There is no special run on any one line, but a good demand in all:

Barbed wire, 100 lb.	\$3 25
Plain twist	3 25
Staples	3 75
Oiled annealed wire.	2 90
"	11
"	12
"	13
"	14
"	15
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1.	4 25
" No. 2 and larger	4 00
Snow shoes, No. 0 to No. 1.	4 55
" No. 2 and larger	4 25

Steel, No. 0 to No. 1	4 55
No. 2 and larger	4 30
Extra light	5 50
Bar and band iron, \$2.10 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 00
14 to 26 gauge.	3 25
28 gauge.	3 60
Galvanized American, 16 gauge.	4 00
18 to 22 gauge	4 25
24 gauge	4 50
26 gauge.	4 75
28 gauge.	5 00
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, IC charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	13 00
Ingot tin.	29
Canada plate, 18 x 21 and 18 x 24	3 10
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots.	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black, 1/4 inch.	3 00
" 3/8 inch.	3 25
" 1/2 inch.	4 00
" 3/4 inch.	4 50
" 1 inch.	6 25
" 1 1/4 inch.	8 50
" 1 1/2 inch.	10 25
" 2 inch.	14 00
" Over 2 inch.	70 p.c.
Rope, sisal, 7-16 and larger.	10 05
" 3/4	11 00
" 1/2 and 5-16	11 50
Manila, 7-16 and larger	11 50
" 3/4	12 00
" 1/2 and 5-16	12 50
Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, 10 and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass.	70 and 10 p.c.
Round "	60 and 5 p.c.
Bolts, carriage	55 p.c.
Machine.	60 p.c.
Tire.	55 p.c.
Sleigh shoe.	65 p.c.
Rivets, iron.	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels.	
Harvest tools.	60 to 60 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1.	1 50
No. 2.	1 25
Octagon extra.	1 65
No. 1.	1 25
Linseed oil, raw, per gal.	57
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol.	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol.	5 p.c.
C.F. military.	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge.	15 00
" chilled, 12 gauge.	16 50
" soft, 10 gauge.	20 00
" chilled, 10 gauge.	21 00
American, M.	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled.	7 00
Powder, F.F., keg.	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed.	70 and 30 p.c.
Granite ware, according to quality.	50 to 60 p.c.

The Association of Steel Shafting Manufacturers, which met at Pittsburg on Saturday, have advanced the price of shafting. The advance varies with the sizes, but it averages about 5 per cent. At Chicago, structural iron and steel have advanced \$2, and steel rails \$1 per ton. The sales of rails last week were about 14,000 tons. Buyers were presumably stimulated by the report that an effort would be made next week to reorganize the old rail pool.

FOR SALE.

FOR SALE — A SET OF TINSMITH'S Tools, very little used, including a break and squaring shears. Address Box 179, Oshawa.

SITUATION WANTED.

HARDWARE SALESMAN WISHES POSI- tion. Young man, seven years' experience, good stockkeeper, bookkeeping, excellent refer- ences. (Manitoba or Northwest preferred). Address, Box K, HARDWARE AND METAL, Toronto.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



Pullman Sash Balance Co.

Makers of the

**"Pullman"
Hardware
Specialties**

Main Office and Works,
Rochester, N.Y., U.S.A.

The Latest. 1899 The Best.



**Banner Cold
Blast Lamps**

**LARGE WHITE
FLAME.
WINDPROOF.**

With locked seamed tubes, no solder.

The only Tubular Lan- tern made with the Patent Safety Extinguishing Burner.

No more blowing out, no explosions.

For sale by all prominent hardware and lamp goods merchants in the Dominion.

Manufactured by

**The Ontario
Lantern Co.,**

(18) Hamilton, Ont.

The Toronto Patent Agency

Limited

CAPITAL - \$25,000

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JOS. DOUST, ESQ., Vice-President.

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**79, 80, 81, 82 Confederation Life Building
TORONTO, ONT.**

General Patent Agents in procuring Home and Foreign Patents and all matters pertaining to Patents and Patent Causes, also the buying and selling of Patents, and the Organizing and promoting of Joint Stock Companies. List of 500 inventions wanted and list of Canadian Patented inventions for sale, mailed to any address free, address

The Toronto Patent Agency

Limited

TORONTO, ONT.

A BRUSH FIRM'S SAMPLE-ROOM.

BOECKH BROS. & COMPANY., Toronto, have recently remodeled their offices and sample-rooms on an elaborate scale, and they are, without doubt, one of the finest equipped premises in their line in Canada.

The samples of brushes are arranged in long glass-covered cases with sliding tops, where the smallest artist's brush to the largest painter's and kalsomine brushes, may be seen, and it is really surprising to see the variety of this class of goods to select from. Under these glass cases are fitted sliding drawers, containing scrub, shoe, stove, dandy, horse, and clothes brushes; also, various other lines too numerous to mention. Brooms are fitted in a rack along the wall, with whisks placed in between. Underneath are washboards, tubs, pails, churns, and other wooden packages. Above the brooms are bannister brushes, hair brooms, hearth dusters, and other goods of this class. A large assortment of baskets for all purposes is neatly arranged to attract the customer's attention.

On the south side, the offices are divided from the sample-room by a glass partition, fitted with handsome fixtures. Adjoining the general offices are private offices for general manager, secretary, and cashier; also, for buyer and sales department. A vault has been built of substantial size for books, etc.

Separate from this again the numerous traveling salesmen have not been overlooked, having a room fitted up for their use in grand style. Between this and general offices is a typewriter's department for the stenographer and stationery stock. The stationery stock contains no small amount of printed matter of various kinds.

Wash-rooms are in keeping with the other parts, being modern and up-to-date in every respect.

An electric elevator replaced the old Armstrong patent which makes a big saving in time, both to the firm and employees.

Luxfer prisms have been fitted over the front window, which throw abundance of light into the back part of the warerooms.

The building has been fitted throughout with a system of steam-heating and is lighted by electricity.

On passing out on to the street again attention was called to the various lines of adjustable show and display tables, which are neatly decorated with brushes, and, as a finishing touch to the artistic appearance of the showrooms, a number of flowers and palms occupy prominent places which add much to the beauty of the place.


The factories of the company are located

on Adelaide street west, and goods are sent to warerooms every day for shipment.

LARGE IRON ORE SHIPMENTS.

The iron ore mines of the Mesabas are preparing for the largest season's shipment in the history of the iron industry. Sales of over 10,000,000 tons have already been contracted on the basis of \$3 to \$3.50 for standard Bessemer, and a premium is now being offered operators on these prices. It is claimed that consumers who bought ores have had abundant opportunities to resell their purchases at such advances as would make a better speculation than the use of these same ores in manufacturing. Many

have been offered from 50 to 80c. per ton advance on their contracts. Mesaba ores of inferior grade, so far as iron content is concerned, have sold readily at \$3, and an ore that, for the past four years, has been a drug, containing from .100 to .110 phosphate, has sold for \$2.40. The situation as it prevails this spring, has been beyond the anticipation of most experienced mine owners, so great were the early sales by companies that saw at last, after many years, a chance to get out even, and wanted to take it without delay, or wanted to assure cooperation roads a full traffic, that the supply of the ores to be sold at these higher figures is limited.—Iron and Steel.



Morgan & Wright Tires
are good tires.

We sell them. We
sell Morgan & Wright sundries.

There is money in them.
There is local reputation in them.

Buy them from us when you
are getting Goodrich - Resflex
Single Tubes and Goodrich

Sundries, or Goodrich - made
G. & J. Detachable.

Get our Booklets.

They are only sent to dealers.
They keep dealers up-to-date.
They are full of business.

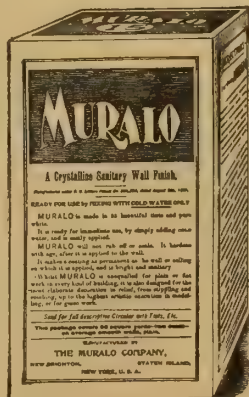
Send us your name on a post
card—but a letter will be more
acceptable.

MORGAN & WRIGHT TIRES
ARE GOOD TIRES

American Tire Co., Limited,
166 King St. W., Toronto.

MURALO

THE WALL TINT.



MURALO is the best, the finest ground, the most beautiful cold water wall tint made in the world.

MURALO requires no glue, no coloring, no preparation except to mix with cold water and it is ready for the wall.

MURALO is sanitary, perfected by the most expert chemists on scientific principles.

MURALO started out in New York State, spread to every State in the Union, crossed to Europe and now directions have to be printed in four languages. There is more Muralo sold in the British Colonies to-day than all other wall tint preparations put together.

The Season is now on—get **MURALO** quick.
Send for Color Card. We help you sell it.

A. RAMSAY & SON, MONTREAL,

AGENTS
FOR CANADA.

ENTHUSIASM IN TRAVELERS.

THE manager's prime duty is to save dollars and to make dollars. What will make dollars for the jobber and his salesman, means dollars to the manufacturer and the retailer.

Referring to the benefits accruing to the retailer, the more goods a salesman sells at practically the same expense, the lower prices he can afford to make his customer, while his employer's profits are at the same time increased. For this reason it is of advantage to the retailer to throw all the trade possible to one jobber, as the jobber has found it advantageous to throw all the trade possible to one manufacturer. The time was when the retailer had some grounds for being a little shy of placing his confidence in one salesman or jobber, fearing he would take advantage of his credulity. Times have changed; competition is so keen and the competing salesman so alert to grasp an opportunity to advance his interests with the dealer, that the jobber and salesman who have undivided accounts appreciate their friends and realize not only their advantage over their competitors, but that just treatment only, will secure the benefits permanently.

One of the most important duties of the manager is to enthuse the salesman under him. A salesman's enthusiasm must not only be sufficient to secure a large part of his customer's patronage, but it must be imparted to the customer the minute he darkens the door. The salesman's visits should be such an inspiration to his customer that the effect of the call upon the customer will not have entirely disappeared before he calls again. Some one has correctly said "Enthusiasm is the Soul of business." No salesman does his whole duty, who does not show his interest in his customer, by cheering and encouraging him in his combat with the petty trials and daily annoyances incident to the retail business.

Here is the secret of the success of many salesmen over others: It is the salesman who exhibits a brotherly feeling for his customer, who has the ability to get "next" to his customer, a quality lacking in so many salesmen, who to-day gets the lion's share of his customer's patronage. It was the salesman's ability to secure his customer's confidence, good will and business, that influenced the jobber to select him as manager of his salesmen, and it is this quality that will cause him to succeed in the position. To-day the jobber will not allow his salesman to be undersold by his competitor, and as a consequence, the price cutter wins no permanent advantage over the up-to-date salesman whom he expects to follow him in a few days.—Hardware.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade

REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.



Geo. D. Wood & Co.

WINNIPEG, MAN.

Importers of and Dealers in

SHELF AND
HEAVY

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now **complete** in seasonable lines. **Prompt** shipment.

Letter orders receive **special** attention.

RAMSAY'S
PAINT

Get Ramsay's Mixed Paints and offer your customers a paint that paints and stays painted. A pure paint that yields its profit and does its work well.

RAMSAY'S
WHITE
LEAD

Are you handling Ramsay's Exterior White Lead? It is the leader in the lead market to day. A lead that is cheaper than pure, and a positive guarantee that for outside work it is better. Our booklets and forty testimonials from leading decorators and dealers will help you sell it.

RAMSAY'S
VARNISH
STAINS

Stains and varnishes at one stroke, very beautiful and true in color to the natural wood. Put up in all sizes of cans.

A. RAMSAY & SON,

PAINT
MAKERS,

MONTREAL.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

GRIFFIN AND SHIELD BRAND



This Mark is a Guarantee
of Quality.

Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

of Montreal

MANUFACTURERS

HALL'S PATENT

Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our

Mixed Paints	Varnishes
Floor Paints	Colors in Oil
	etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

MONTREAL.

A HARDWAREMAN'S TWO STORES.

ONE of the most marked evidences of Canadian energy and enterprise is the hardware business of E. M. Marshall, Strathroy and Sarnia.

Six years ago, Mr. Marshall, then associated with Mr. Mason, purchased the stock of Charles Grist, and successfully carried on a business in heavy and shelf hardware and agricultural implements. The store is



E. M. Marshall's Strathroy Store.

24 x 80 ft., has three flats and basement, as well as separate oil house, iron pipe house, bar iron house and implement warerooms.

Three years ago, Marshall & Mason purchased the stock of A. Lawrie & Co., Sarnia, and immediately removed it to more commodious quarters on the front street, where business has been ever on the increase.

Two years ago, upon the death of Mr. Mason, Mr. Marshall purchased his late partner's interest, and now carries on the business in his own name.

Recent extensions and improvements have been found necessary in the present large



E. M. Marshall's Sarnia Store.

store, and an 85 x 22 ft. addition has been made, giving, in all, floor space of 185 x 22 ft., running from street to street. Sixteen thousand square feet is the aggregate floor space of the two stores. Under the supervision of the Sarnia manager, H. A. Couse, very neat and tasty offices have been installed. A hoist for heavy goods, bicycle repair and tinshop, and racks for bar iron

and iron pipe, have also been added. The additional floor space and shelf room make the neat store arrangements and up-to-date methods, for which these stores are noted, more feasible, attractive and of great profit to the promoters, the more especially when the bright prospects of Sarnia, with its recent additions of the oil refineries and G.T.R. shops, are taken into consideration.

Both Messrs. E. M. Marshall and H. A. Couse are strong advocates of trade papers, consider them essential to their business welfare and credit them with hints and suggestions that have aided them materially in keeping up-to-date in many of their business undertakings.

While still one of our young men, Mr. Marshall has many years of usefulness before him, and, with the solid foundation which careful attention, as well as a thorough knowledge of the business, has permitted him to make, a superstructure may be effected which will redound to his honor and profit, and of which he may well feel proud.

S. McK.

AMONG TORONTO RETAILERS.

*Displaying
Paints and
Oils.*

Nearly all of the Toronto retail hardware dealers are pushing paints and oils now, so displays of these goods are to be seen everywhere. In some cases the prepared paints are used exclusively, and are made into a large pile having a large card affixed stating the price and the make of the goods. This style of display certainly attracts attention, but it is not nearly so fetching as a general display of paints, oils and painters' sundries. In a down-town store there is an excellent display of this nature. The window is to the right of the door, and, as the doorway is a deep one, there are two good views of the window space. A stand, with a base of about three by four feet, is made with steps horizontal to both the front and side view of the window. These steps rise to about three feet high at the inner corner, the top one being about a foot long by six inches wide. On these steps, white lead, prepared paints, bicycle enamel, gilding, gold leaf, and painters' sundries were shown, the white leaf and prepared paints making a background, relieved nicely by the more brightly colored sundries. At the front, the floor was covered by 24 small saucers, filled with different hues of dry colors. At the side, larger saucers were filled with various grades of glue. A pile of sponges was also placed in here. From the ceiling hung a large rack showing the many colors of paint carried. Bicycle enamel and carriage paint color cards were used to good advantage. Price tickets were

everywhere. The window was, in fact, an encyclopædia of the paint and oil goods and prices kept by the house.

THE RAMBLER.

STEVENS' MECHANICAL CATECHISM

"Stevens' Mechanical Catechism," just issued, is a marvel. Like all the reference books published by Laird & Lee, it is crammed full of information, not an inch of space being wasted. All the subjects are treated in the most interesting and thorough manner and in plain lucid language.

Mechanics and engineers will be delighted with the work. Other books may contain the same information, but Stevens' talks the mechanics' language, and evidently knows their thoughts, their difficulties and their needs. Intricate problems and purely theoretical questions are entirely omitted.

A large part of the subjects are treated in the form of questions and answers, as preparation for Civil Service examinations.

The steam-engine is thoroughly explained, with all its modern attachments and improvements, slide valves, safety valves, injectors, pumps, steam gauges, lubricators, eccentrics, link motion, indicator, etc. The traction engine and hay-stacker are treated in a special chapter. The manufacturing of ice, refrigeration machines, brine and direct expansion systems are treated exhaustively; also the machine-shop, the electric plant, house wiring and electric heating. The scientific principle and basis of mechanical work is made clear in every subject, so that the practical hints and directions given are more easily grasped. Calculations of horse-power, pulley-speed, lathe-gearing, square root, leverage and tensile strength are made easy, and such puzzling questions as the travel of crosshead and crankpin are solved in a practical convincing manner. The elements of algebra are presented in a very happy manner. Useful recipes for emergencies are scattered all over the book.

A classified alphabetical index enables the reader to turn to every subject instantly. Over 240 sectional cuts and illustrations, many of them specially designed for this work, give it additional value.

No artisan or mechanic who wishes to keep abreast of the times will fail to procure a copy.

Silk cloth, \$1; leather, library style, marbled edges, \$1.50.

The Standard Oil Company will use oak barrels in future in the distribution of coal oil throughout Canada, discarding the elm barrels now in use as speedily as the others can be received.

Our Goods are Sellers



Pattern No. 706.

We will send a line of Sample Books, express prepaid, to any dealer who desires to replenish his stock.

WRITE
QUICKLY.

COLIN McARTHUR & CO.

1030 Notre Dame Street,

— Montreal.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

P. E. Hudon, general merchant, Hebertville, Que., has assigned.

E. Peltier, general merchant, Etchemin, Que., is offering 75c. on the dollar.

Arthur Methot, saddler, St. George East, Que., is offering 50c. on the dollar.

Assignment has been demanded of Max Winter, general merchant, Grand Mere, Que.

J. F. Therien, general merchant, St. Gregoire, Que., is offering 60c. on the dollar.

Kidd & Beattie, general merchants, Asbestos, Que., have assigned to Lamarche & Benoit.

PARTNERSHIPS FORMED AND DISSOLVED.

Alexander Martin, general merchant, Cochrane, N.W.T., has admitted — Foley.

Allaire & Co., general merchants, Somerset, Man., have dissolved, J. P. Allaire retiring.

Martin Bros., hardware dealers, Rossland, B.C., are reported dissolved, William C. Martin to continue.

J. A. Beattie, hardware dealer, Ridgetown, has admitted his two sons under the style of J. A. Beattie & Co.

McRae & McLean, hardware dealers, Gladstone, Man., have dissolved, E. Crouter buying James McRae's interest.

Wm. E. O'Brien and S. V. Thayer have registered partnership under the style of W. E. O'Brien & Co., general merchants, Dunham, Que.

S. H. White & Co., general merchants, etc., Sussex, N.B., have dissolved, Andrew L. Price retiring and selling his interest to Simeon H. White, who continues with Walter J. Mills under the old style.

Edward Brooks and Kenneth M. Brooks have registered new copartnership under the style of E. Brooks & Son, general mer-

chants, Paradise, N.S., who have bought out S. McClaskey & Co., general merchants, of the same place.

Arthur Denis & Co., painters, Montreal, have dissolved, and Arthur Denis and Louis E. Denis have registered proprietorship.

SALES MADE AND PENDING.

P. F. Curtis, general merchant, Baldur, Man., has sold out to J. W. Waugh.

A. Perrier, hardware dealer, Montreal, has sold his stock at 45c. on the dollar.

The movable assets of J. Jacob, contractor, St. Henri de Montreal, Que., have been sold.

The stock of G. C. Kingston, carriagemaker, Dartmouth, N.S., is advertised for sale by auction.

The assets of E. A. Dool, general merchant, Easton's Corners, Ont., are to be sold on the 27th inst.

The stock of G. E. Harvey, general merchant, Pointe au Pic, Que., has been sold at 57 1/2c. on the dollar.

The assets of A. Spenard, general merchant, St. Jean de Chaillons, Que., are to be sold on the 21st inst.

The stock of the estate of Wesley Bingham, hardware dealer, etc., Lindsay, Ont., is advertised for sale by tender.

The stock-in-trade, book debts, etc., of the estate of K. R. McKenzie, general merchant, North Sydney, N.S., are advertised for sale by tender.

CHANGES.

Frank Short has opened up as bicycle dealer in Dartmouth, N.S.

J. P. Shannon, hardware dealer, Glenboro, Man., has sold out to C. Armitage.

Daniel Johnson, of D. Johnson & Co., general merchants, Westville, N.S., is away.

John Cunningham, general merchant, Pembroke, Ont., has sold out to R. F. Beamish.

Wm. Taylor, hardware dealer, Carleton

Place, Ont., has been succeeded by Taylor, Son & Co.

W. A. O'Dell & Co., hardware dealers, Mitchell, Ont., have been succeeded by R. S. Harding.

W. H. Carmichael, carriagemaker, Rodney, Ont., has retired from business and left Rodney.

The Scott & Hudson Building Co., Limited, Rat Portage, Ont., has been incorporated.

Dunlop Bros. & Co., general merchants, Amherst, N.S., have been succeeded by George R. Smith.

Hector G. Cadieux has registered as proprietor of Nap. Laporte & Fils, hardware dealers, Montreal.

Anna Gobeille, wife of Charles Leveille, has registered as proprietress of C. Leveille & Co., builders, Montreal.

J. N. Ducharme has ceased doing business under the style of J. N. Fauteux & Co., hardware dealers, Montreal.

Wm. Little, general merchant, Burlington, Ont., has sold out to J. J. Fields, who has sold out his Kilbride, Ont., business.

McArthur & Harper, general merchants, Kamloops and Ashcroft, B.C., have sold their Ashcroft business to Deans, Shaw & Creelman.

Eugenie Sigouin, wife of Telesphore Frenette, has registered as proprietress of Dame Eugenie Frenette, manufacturer stoves, safes, etc., Montreal.

FIRES.

Hemenway & Lawson, general merchants, Carman, Man., have been burned out.

The Cariboo Lumber Co., sawmillers, Quesnelle Forks, B.C., have been burned out; loss estimated \$1,000.

DEATHS.

W. J. Cramp, blacksmith, Hornby, is dead.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

The
DETECTIVE AND CONFIDENTIAL AGENCY.

Room 12, James Building,
75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employees or Friends.

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898

Spramotor Company,

London, Ont.

Gentlemen—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus, had practically none. Yours truly,

W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.



IRON AND
BRASS

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDOUGALL CO., Limited
Manufacturers, Galt, Canada.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Enamelled Tins

The Best Oils and the prettiest tins on the market.

No paper labels.

Unlike Petroleum GOOLD'S Lamp Oil does not blow or jolt out.



GOOLD'S

CYCLE OILS

are recommended by

Field-Marshal Lord Roberts,
etc., etc. V.C., K.P.

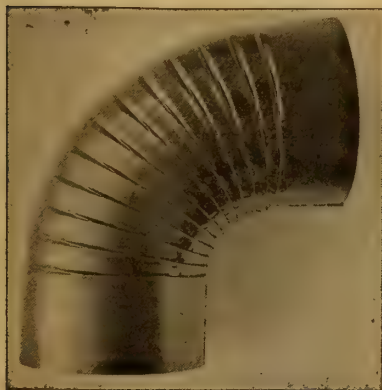
AGENCY. We are open to give the sole buying agency for Canada to an influential firm.

GOOLD'S, LIMITED

(17)

Liverpool, England.

ELBOWS



Our Standard Pleated Elbows are made on our Patent Elbow Machine (Patented U. S. and Canada) and this year will be made from Blue Steel giving dark finish. We are also introducing a new feature in crating these goods that will ensure safe delivery. These are the elbows that fit any pipe, do not catch the dust, or impede the draft; made strong and neat.

THE ...

Thos. Davidson Mfg. Co.

Limited

MONTREAL.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO.

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,

Actuary.

J. K. MACDONALD,

Managing Director

MR. SILO AND THE PARLOR STOVE.

ONE day when trade was dull in a stove store, writes J. H. Cloyes in the Springfield, Mass., Republican, and the proprietor sat grumbling at the weather and wishing for a fall in temperature that would send his sales up, a man walked in, very leisurely, in a kind of got-lots-of-time way, looking about at the display in a very non-committal fashion. "Mornin', Mr. Silo," said the dealer. "What can I do for you?"

"Nothin', I guess. Tho't I'd look in as I was passin' an' see what you'd got."

"Most time to be looking up something to keep warm by, ain't it? Winter is com-



Drill Points for "Yankee" Automatic Drill.

ing, almost here; in time of peace prepare for war, you know," rejoined the stove man, scenting a trade.

"Yes, I s'pose it's best to be allus prepared for the futur', an' Brother Bigot thinks it's a comfortin' doctrin' to believe that a good many folks is preparin' to have it hot bymeby. Hows'ever, I'm satisfied myself with the old stove in the way of preparin' for cold weather. I've had it a good while an' don't see but it's as good as ever; 'course, it's some bother to work up wood fer it an' keep the fire 'goin', but after all it's pamperin' ter pride ter have an extra fire; kitchin's good 'nough fer me."

"Well, I won't dispute that if you say so; according to report you're able to sit in either kitchen or parlor and get along with-

ther is in gittin'. You can't eat yer cake an' keep it too. I never heard o' drawin' out and keepin' the bar'l full, 'less you keep puttin' in; 'cept in that Scriptur' story of the Widder Cruse's oil. Guess I'd better be goin' s' long as I ain't buyin' no stove to-day.

"Say! 'spose a man had any notion of tradin' fer that ar' stove, what's the least

you'd tax fer it cash down? Fact is, my girls say they want things like other folks; feel 'shamed ter have their comp'ny see old fashion furnitur' an' such like, an' ther ma she sided in with 'em; an' they all tewed so much I had ter agree ter new rig up the keepin' room to have peace in the family; but I tell 'em the old stove 'll have ter do."

"I don't hold to convincin' a man against his will," replied the stove man, "and won't offer my advice, but if you ever conclude to buy a parlor stove, that Andromeda is just the one to suit; the regular price is \$30, but I'll make it \$27 to you."

Mr. Silo couldn't see it, saying: "I ain't in no hurry an' d'ruther look 'round more."

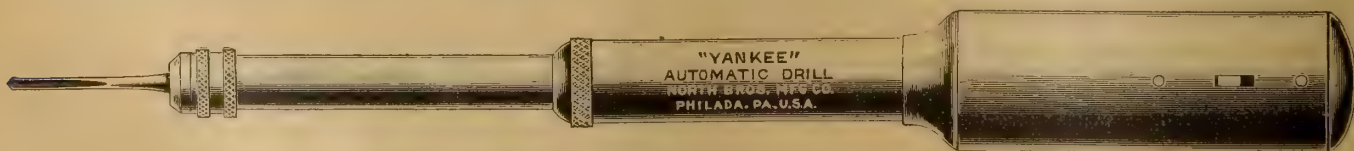
"That's your privilege, of course, but look here—when you find a stove equal to that at the figure I've named, come back and I'll go below it."

"All right, see you later," said Silo, and departed.

Then the dealer eased his mind in this wise: "That man is as close fisted as they make 'em, and takes comfort in it. He hates to spend money for his family beyond what he calls 'an equinomical livin', but all the same, his women folks know what he can afford, and as usual get what they want. They're bound to have a new stove and I shall sell it, profit or no profit; when he's been around and beat down prices in town and out, he'll come back." So, indeed, he did, after a while, and this colloquy followed:

"Well, Mr. Silo, come to order that stove?"

"Guess not; want to get same other figgers."



"Yankee" Automatic Drill.

out working much. Some folks has pride without property, and others property without pride; they say you're one of the last kind."

"May be, but I ain't braggin'; an' I've learnt that there's as much in holdin' on as

"How did you find prices—low as mine?"

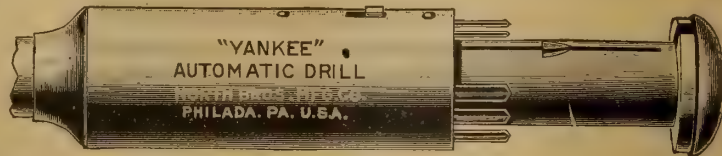
"Yes, just the same."

"That so? What d'ye say to \$25?"

"Can't give it," replied Silo, and left, to return again in a week, when the former conversation was repeated, except a reduc-

tion to \$23, because, as the dealer said, he wasn't going back on his word. The stove was bought and paid for on those terms, with these last words:

"Say, who was it that cut my prices?"



Magazine for Drill Points.

"You."

"Me!"

"Yes; nobody else—didn't ask 'em. I just told ye your own prices, that's all."

"Well, I'll be——!" said the stove man.

AN AUTOMATIC DRILL.

The "Yankee" automatic drill, No. 40, manufactured by North Bros. Mfg. Co., Philadelphia, Pa., and designed for the use of carpenters, cabinetmakers, etc., for boring wood for various purposes; as setting screws, brads, nails, etc., is a really good article. It bores holes in hard or soft woods without splitting. Pushing handle down revolves the drill, and a spring pushes handle back to its place.

The most important improvement embodied in this tool, is the magazine for drills. This is found in handle and reached by pushing catch towards top of tool, which causes interior of handle to move upwards, showing all the drills in plain sight (as in illustration) and so they can be readily removed. This enables user to quickly select drill required. When the two parts are closed together they are fastened automatically and held firmly in place.

The chuck is of new design, is stronger and will last longer than any now used in such tools. To insert drill the sleeve of chuck is turned to left, the drill inserted and sleeve let go. If the sleeve does not return to its place, push on drill and turn in chuck until it does. In hard or tough woods this drill can be operated as a ratchet. The

tool is made of brass, nickelplated and finely finished. The material and workmanship throughout are of the best.

Eight drills, as shown in cut, are furnished with each tool. The entire length of tool, inclusive of drill, as in illustration, is 10 3/4 in.

If you sell Files

you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
any other, send
them back.

The Arcade
Files are the
only files in the
market with Weed's
Improved Patented In-
crement Cut, and are made
in the best equipped file works
in the world. We've been mak-
ing files fifty-seven years and cer-
tainly know how.

THE ARCADE FILE WORKS

ESTABLISHED 1842.

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COURTLANDT C. CLARKE,
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CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.



HEATING AND PLUMBING

NECESSITY OF VENTILATION.

WHAT is understood by atmospheric air is a mechanical mixture of gases, of which recent chemical researches give the following as the mean composition of one hundred volumes and of one hundred grains of dry air :

	Volumes.	Grains.
Nitrogen.....	79.02	76.84
Oxygen.....	20.94	23.10
Carbonic acid.....	0.04	0.06
	100.00	100.00

Besides these substances, other gaseous matters occur in quantities too small to sensibly increase the bulk of the air, such as ammonia and ammoniacal salts, carbureted and sulphureted hydrogen, carbonic oxide, sulphurous and sulphuric acid, nitric acid, and perhaps iodine, the quantity and even the presence of which are affected by local and meteorological causes. The air, however, is never found dry, but contains in addition to the constituents already named, aqueous vapor, the amount of which is constantly changing, according to locality, weather, wind, and temperature. By far the most active chemical constituent of the air is oxygen, essential to the existence of animal life, the maintenance of combustion, and many other chemical phenomena. The nitrogen which forms the bulk of the air has few chemical properties of importance, but performs the important part of diluting the oxygen, which, if it occurred alone, would act with too great intensity. Carbonic acid is produced in all processes where carbonaceous matter unites itself with the oxygen of the air, such as in animal respiration, in combustion, in fermentation, in putrefaction, and in similar processes. The green leaves of plants, on the other hand, possess, in presence of sunshine, the power of decomposing the carbonic acid into its elements, absorbing the carbon for their own tissues, and restoring the oxygen to the air in its original purity. Between the processes above mentioned, on the one hand, and the action of the plants on the other, the quantity of carbonic acid in pure air is kept nearly constant at four volumes in ten thousand volumes of atmospheric air. If it occurred in a much larger proportion, being poisonous, it would become dangerous to animal life; and if it occurred in a much less proportion, the vegetable world would lack its requisite nourishment. In pure air, the presence of the other above-named substances need not be considered, as the quantities in which some or all occur are mere traces, and difficult to detect in

the air itself. A noticeable predominance of any one of these substances, however, would indicate an impure air, unfit for ventilating purposes.

The necessity of constantly renewing the air in closed rooms where living beings are breathing arises chiefly from the vitiating effects produced on air by the products of respiration from the occupants and the products of combustion from burning lights. An additional cause for the vitiation of air is often formed by the allowed or unavoidable presence of gases from chemical processes or dust from mechanical operations. A further necessity for the renewal of the air in a room may arise from the heat generated by the occupants, the illumination, or any other cause for an undue increase of the temperature in the room.—H. Eisert.

A WESTERN HOT-WATER HEATING SCHEME.

A CORRESPONDENT, in sending us notes of a movement in certain localities out west, where householders club together and have their houses heated from a common source, refers to a system of hot-water heating which has been introduced in Mattoon, Ill., and which has been utilized in the way indicated, doing away with the separate systems of heating in each house. The heating system adopted is thus described :

The system is a hot-water heating device for the heating of business buildings and residences, and it is destined to supersede the steam-heating systems in vogue at the present time.

It is a method of utilizing the heat which has heretofore gone to waste in the exhaust steam from the engines operating electric light and power plants. This is done by conducting the exhaust steam into surface condensers placed near the engines. Water

from the expansion tank, holding 1,000 gallons, is pumped through these condensers, and, absorbing the heat from the steam in them, passes into a delivery main that conducts it all over the district to be heated, which may have a radius of one mile.

As the water passes through this delivery main it is taken off through ½-inch corporation cocks and thence by 1-inch pipes into the various dwellings and buildings along the route.

After passing through the radiators in a building or dwelling, the water flows out into the return main, which runs side by side with the delivery main along the entire route.

The return main has an open end in the expansion tank, before mentioned, at the station, and this, by relieving pressure at that end, causes a constant flow of water through the various taps and pipes in buildings and dwellings from the delivery main, the water in which has an initial pressure of from 25 to 40 pounds. Thus a constant flow of water through the radiators of buildings is kept up, and, as the water is under pressure, small-sized pipings answer equally as well as the large piping customarily used in local hot-water plants.—Sanitary Plumber.

PLUMBING AND HEATING CONTRACTS.

Robert Ross, plumber, Parkdale, Toronto, has contracts for plumbing and heating in a residence for Dr. Thorburn, Bloor street; for plumbing in a residence for Wm. Murray, on Madison avenue, and for seven houses on Arthur street, for — Simpson.

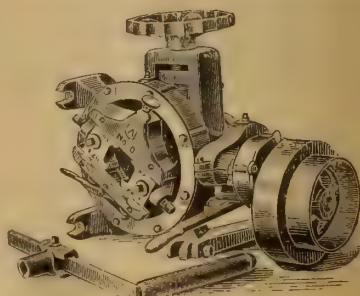
Keith & Fitzsimons, plumbers, Toronto, have contracts for plumbing in three houses in Rosedale.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office.
139 Centre Street

Bridgeport, Conn.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.



Gauge
Glass
Cutter

Cut your own Water Gauge Glasses to any required length.

Valves, Stop Cocks Pipe Fitting Tools

The...

Jas. Morrison Brass Mfg. Co.
93 Adelaide W., Toronto. Limited

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

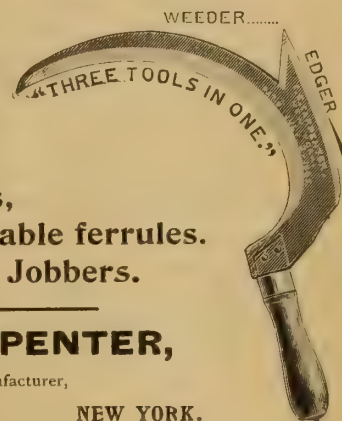
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

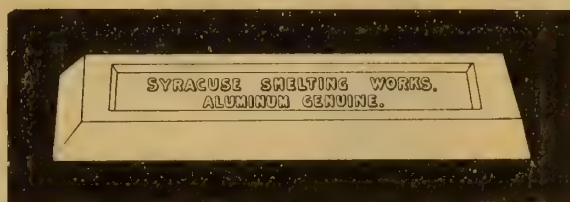
Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

USE SYRACUSE BABBITT METAL.

IT IS THE
BEST MADE.



FOR...

Paper and Pulp Mills,
Saw and Wood Working
Machinery,
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Dynamos, Marine Engines,
and all kinds
Machinery Bearings.

Pig Tin, Lead, Ingot Copper, Phosphor Tin, Phosphor Bronze Ingots, Brass, Nickel, Bismuth, Aluminum, Zinc Spelter, Antimony, etc., furnished promptly.

— TINSMITHS' AND PLUMBERS' SOLDER A SPECIALTY. —

SYRACUSE SMELTING WORKS

B. Telephone 8171.

Factories—332 William Street, MONTREAL, QUE., and SYRACUSE, N.Y.

A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their
local mills and factories. Special discounts to the trade.
Write to-day!

DODGE MANUFACTURING CO.

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TORONTO, ONTARIO

Every pulley sold under our absolute guarantee



PLUMBING AND HEATING NOTES.

THE offices of The Toronto Steel-Clad Bath Co. have been removed from Queen street east to 114 Richmond street east, Toronto.

Jobin & Paquet have registered as plumbers in Montreal.

L. Girrard & Co., plumbers, Montreal, are offering 20c. on the dollar.

The assets of Paul Parent, plumber, etc., Quebec, are to be sold on the 25th inst.

A meeting of the creditors of Lafrance & Lariviere, plumbers, Montreal, has been held.

Nap. Vezina, plumber, Quebec, has assigned, and a meeting to appoint a curator has been called for the 27th inst.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to W. Murray, for a three-storey store and dwelling at 518 Yonge street, to cost \$3,200; to Mrs. S. Heatherington, for a two-storey and attic brick residence at 346 Jarvis street, to cost \$2,500; to Hy. Parry, for a two-storey and attic residence on Grant street, to cost \$1,000; to Mrs. Leary, for a pair of two-storey and attic residences at 336 and 338 Sackville street, to cost \$2,700; to J. Linden, for a pair of semi-detached two-storey and attic brick dwellings opposite Tyndal avenue, on Huxley street, to cost \$6,000; to McGaw & Winnett, for a two-storey and attic brick residence near May street, on the west side of Crescent road, Rosedale, to cost \$5,000, and a two-storey and attic brick residence near South drive, on the west side of Scarth road, Rosedale, to cost \$4,400; to The Consumers' Gas Co., for a three-storey and basement office building near Court street, on Toronto street, to cost \$20,000; to H.G. Paul, for four two-storey summer residences, to cost \$2,800; to the trustees of the Old Folks' Home, for a three-storey brick home for aged women, near Caer-Howell street, on the west side of University avenue, to cost \$11,000; to W. J. Brown, for a two-storey brick residence at 168 Indian road, to cost \$2,300. The total for the week, including small alteration jobs not mentioned, is about \$64,000.

THE PLUMBER.

"No," said the plumber, "I don't take advantage of the situation and make fabulous charges for work. The people are to blame for that. Just read these letters, will you?"

He produced half a dozen, some of which read as follows:

"If you will fix my pipes before you tackle Brown's I'll give you \$10 extra.

"Don't fix Jenkins' pipes before mine. He's no friend of yours. I enclose \$5 and hope to see you in the morning—early.

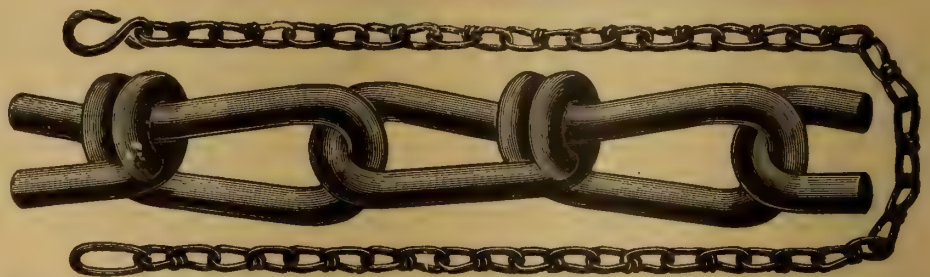
"P.S.—Jenkins hates plumbers."

We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.

Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

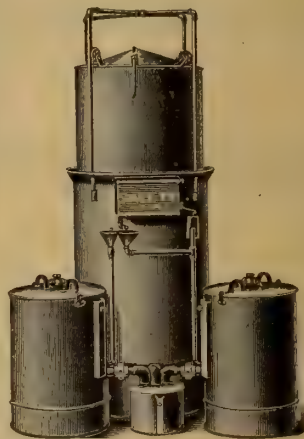
Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only **pure gas**. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS. Send for Booklet.

**THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne**

All England Championship Cup, value £100, also stake £100, in all £200, on 7th December, 1898, the winner fired with our shot and writes us: "You will be pleased to hear I won the All England Championship Cup. **I fired with your chilled shot.** Indeed, I would not use any other, as I know from experience it makes the best patterns and kills best."

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING**

GOOD LUCK FIBRE

2 and 3 PLY READY ROOFING

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COAL TAR, ROOFING PITCH, ETC.

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ALEXANDER GIBB

Manufacturers' Agent and Metal Broker
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Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Gal-
vanized Sheets, Imitation Russia Sheets Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
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Oil and Artesian Well
Pumps, Casing, Tubing
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1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
Hammer, and all kinds of Handles. Neck Yokes,
Singletrees, and Doubletrees, Bench Saws, Exercise
Clubs, Baseball Bats, etc., etc. Do you sell any
Shaved Pattern and Octagon Axe Handles? The
largest and best trade in Canada does, because they
give best satisfaction. All stock air-dried, not kiln-
dried. If you are going to be in it, place your
order with

GARDNER BROS. & CO.

ARE YOU A BUYER of

**Hardware, Metals,
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Send us Post Card, and a copy of the latest
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ing authority on these trades, will be sent to
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**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
safe of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.



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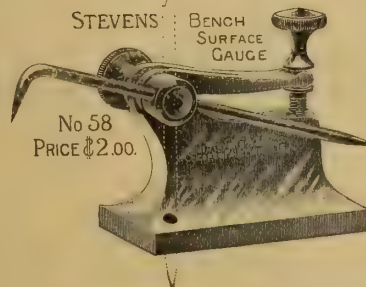
Standing Seam and Slate Roof**SNOW SHOE IRONS**

No snow rails need be used unless desired.
The lugs clinch through the seam easily
but securely. Send for catalogue.

**Berger Bros. Co.,**

Mfrs. of TINNERS' HARDWARE AND
ROOFERS' SUPPLIES,

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STEVENS ...FINE TOOLS

No 58
PRICE \$2.00.

We make a perfect line
of

CALIPERS and DIVIDERS

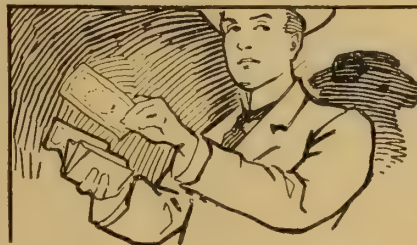
Also such tools as Surface Gauges, Tool
Makers' Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools.
It is also a valuable hand-book of information for mechanics and people
interested in such lines.

J. Stevens Arms & Tool Co.

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Carried by our representatives at Toronto and Montreal.

**Save
Money**

the ceiling and walls of your rooms—Church's Cold Water Alabastine. Wall papers and
kalsomines serve but a temporary purpose, while Alabastine (never sold in bulk) improves
with age. It cannot decay. It will not rub off or scale and it is absolutely sanitary.
There are 16 beautiful tints (and white). Painters everywhere are using it, but you can
use it yourself with a little care, if you can't get at your own painter. Cold water and an
ordinary brush is all you need with

**Church's
Alabastine for Walls**

For sale by paint dealers everywhere.

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid."
It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ont.

HUTCHISON, SHURLY & DERRETT

DOVERCOURT
TWINE MILLS.

1078 BLOOR STREET WEST,
TORONTO.

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,

Cotton and Russian Hemp Plough Lines, plain and colored.

Cotton and Linen Fish Lines, laid and braided.

Netted Hammocks, white and colored, Tennis and Fly Nets.

Skippping Ropes, Jute, Hemp and Flax Twines.

THOS. GOLDSWORTHY & SONS

MANCHESTER, ENGLAND.

EMERY { Cloth Corn Flour

We carry all numbers of Corn and Flour Emery in 10-pound packages, from 8 to 140, in stock. Emery Cloth, Nos. OO., O., F., FF., 1 to 3.

JAMES HUTTON & CO., Wholesale Agents for Canada, **Montreal.**

CURRENT MARKET QUOTATIONS.

April 21, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 29
Straits 0 28 0 28½

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 00
I.X. 6 25
I.X.X. 7 50

R. & Co.—
I.C. 4 75 5 00
I.X. 6 00 6 25
I.X.X. 7 25 7 50

Famous—
I.C. 5 00
I.X. 6 25
I.X.X. 7 50

Raven & Vulture Grades—
I.C., usual sizes 4 00
I.X. 4 75
I.X.X. 5 50
I.X.X., 12½x17 6 25
D.C. 3 51
D.X. 4 25
D.X.X. 6 25

None.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Basemeer Steel—
I.C., usual sizes 3 15
I.C., special sizes, base 3 25
20x28 6 75

Charcoal Plates—Terne.

Dean or J. G. Grade—
I.C., 20x28, 112 sheets 6 25
I.X., Terne Tin 7 75
I.C., Orion 6 25
I.X., Orion 7 25 7 75

Charcoal Tin Boiler Plates.

Cookley Grade—
X X., 14x56, 50 sheet bxs } Per lb.
" 14x60 " } 0 05½ 0 06
" 14x65 " }

Tinned Sheets.
72x30 up to 24 gauge 0 06 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07½ 0 07½

Iron and Steel.

Common Bar, per 100 lbs 1 70
" from factory " 1 60 1 65
Refined " 2 20
Horse Shoe " 1 85 1 90

Hoop steel, 1½ to 3 in. base, extras for smaller sizes 2 25
Swedish 4 00 4 25
Sleigh Shoe Steel " base 2 25
Tie Steel 2 25
Machinery 2 40
Cast Steel, per lb 0 10 0 14
Toe Calk Steel 2 70
Thos. Pirth & Sons' Cast Steel 0 12 0 14
Russian Sheet, per lb 0 10½ 0 11
Tank Plates, 1-5 and thicker. 2 00 2 25
Boiler Rivets 4 50 5 00

Boiler Tubes.

1½-inch 0 06½
2 " 0 07½
3 " 0 09½
3½ " 0 11

Steel Boiler Plate.

3-16 inch \$ 00

3-16 inch 1 90
¾ inch and thicker 1 75

Black Sheets.

18 gauge 2 40
20 " 2 50
22 to 24 " 2 55
26 " 2 65
28 " 2 85

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$2.85; ½ inch, \$2.85; ¾ inch, \$3.15; 1 inch, \$4.50; 1½ inch, \$6.00; 2 inch, \$7.40; 2½ inch, \$9.90. 2½ to 6 inch, discount 65 per cent.
Galvanized, ¼ to ¾ inch, \$5.60; ¾ inch, \$5.60; 1 inch, \$6.10; 1½ inch, \$8.90; 2 inch, \$12.00; 2½ inch, \$14.75; 3 inch, \$19.75. Cast soil, 2, 3, 4 and 5 inch, 60 p.c.

Galvanized Iron.

G.C. Comet. Amer. Head. Queen's
16 gauge 3 75 4 00
18 to 24 gauge 4 00 3 25 3 90 4 25
26 " 4 25 3 50 4 15 4 50
28 " 4 50 3 75 4 50 4 75
Less than case lots, 25c. per 100 lb. additional

Chain.

Proof Coil, 3-16 in., per 100 lbs 6 50
" 5-16 " " 4 00
" ¾ " " 3 60
" 7-16 " " 3 40
" 1 " " 2 35
" 1½ " " 3 15
" 2 " " 3 05
Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per doz. yards 0 13 0 50
Jack chain, double, per doz. yards 0 15
Jack chain, brass, single, per doz. yards 20 10

Copper.

English B. S., ton lots 0 19 0 19½
Lake Superior Bolt or Bar.
Cut lengths, round, ½ to ¾ in. 0 23 0 24
" round and square 1 to 2 inches 0 23 0 24

Sheet.

Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16 oz., irregular sizes 0 23 0 23½
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.

Tinned copper sheets 0 26
Planished 0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb. 0 25
" 35 to 45 " 0 21
" 50-lb. and above, " 0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 10 to 12½ p.c. off list.
Sheets, hard-rolled, 2x4 0 20 0 22½
Tubing, base, per lb 0 21 0 22

Zinc Spelter

Foreign, per lb 0 07½ 0 07½
Domestic " 1 75 1 80

Zinc Sheet.

cwt. casks 0 08
Part casks 0 08½

Lead.

Imported Pig, per lb 0 04½ 0 04½
Domestic, per lb 05½
Bar, 1 lb. 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05
Sheets, 3 to 6 lbs., per sq. ft., by roll. 0 04½ 0 05
NOTE.—Cut sheets ¼ cent per lb. extra
Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount.
NOTE.—Cut lengths, net price, waste pipe 8-ft. lengths, lists at 7½ cents.

Shot.

Net list, no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Per lb. Per lb.
Bar half-and-half 0 17½ 0 18½
Refined 0 17½ 0 17½
Wiping 0 16½ 0 17
NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½

White Lead.

Per cwt.
Pure, Assoc. guarantee, ground in oil, 25 lb. irons 6 00
No. 1 do 5 82
No. 2 do 5 25
No. 3 do 4 87½
No. 4 do 4 50
Robertson's Chemically Pure 6 00
Munro's Select Flake White 6 25
Elephant and Decorators' Pure 6 00
Brandram's B. B. Genuine 7 25
James genuine. No. 1 7 20
" No. 1 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04½
Pure, kegs 0 04½
No. 1, casks 0 04½
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00
Robertson's Pure 1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 07
Chromet Yellow 0 11
Chromet Red 0 06
Golden Ochre 0 05
French 0 05
Marine Black 0 09
Green 0 08
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt 1 35 1 40
Yellow Ochre (J.F.L.S.), bbls. per cwt 2 75
Yellow Ochre (Royal), per cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80 1 90
English Oxides, per cwt. 3 00 3 25
American Oxides, per cwt. .. 1 75 1 80

Canadian Oxides, per cwt. 1 75 1 90
Burnt Sienna, pure, per lb. 0 10
" Umber, 0 10
" do 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03½
Ultra marine Blue in 28-lb. boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb. 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1 lb. packages 0 15
½ lb. " 0 18½
1-lb. tins 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 06
100-lb. lots, do. per lb. 0 07

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 85
Bulk in bbls., per 100 1 85
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30

Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.) per gal
Carriage, No. 1 0 90
Extra do. 1 02
Body Varnish 4 00
Furniture Varnish 0 45
Extra do. 0 80
Demar Varnish 1 40
Hard Oil Finish 1 10
Orange Shellac Varnish 1 90
White Shellac 2 00
Rubbing Varnish 2 40
Brown Japan 0 70
Elastic Oak 0 90

Linseed Oil.

Raw, per gal. net 0 52
Boiled, per gal. net 0 55
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 67
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10½
Small lots 0 11½

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20
" Neatsfoot 0 09

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medal 0 12 0 12½
Cabinet, sheet 0 11 0 12
White, extra 0 16 0 18
Gelatine 0 22 0 30
Strip 0 18 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
B. B. Caps, Dom., 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p. c., Amer.

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistolsizes, Dom.,
30 per cent.
Central Fire Cartridges, Sporting and Mil-
itary, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer-
net list. B.B. Caps, discount 45 per cent
Amer.
Loaded and empty Shells, "Trap" and
"Dominion" grades, 25 per cent. Riva
and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent
Primers, Dom., 30 per cent.
Wads.

per lb.
Best thick white felt wadding, in ½-lb
bags..... 1 00
Best thick brown or grey felt wads, in
½ lb. bags..... 0 70
Best thick white card wads, in boxes
of 500 each, 12 and smaller gauges
Best thick white card wads, in boxe
of 500 each, 10 gauge..... 0 35
Best thick white card wads, in boxes
of 500 each, 8 gauge..... 0 55
Thin card wads, in boxes of 1,000
each, 12 and smaller gauges..... 0 20
Thin card wads, in boxes of 1,000
each, 10 gauge..... 0 25
Thin card wads in boxes of 1,000
each 8 gauge..... 1 10
Chemically prepared black edge grey
cloth wads, in boxes of 250 each—
11 and smaller gauge..... 0 60
9 and 10 gauges..... 0 70
7 and 8 gauges..... 0 90
5 and 6 gauges..... 1 10
Superior chemically prepared pink
edge, best white cloth wads, in
boxes of 250 each—
11 and smaller gauge..... 1 15
9 and 10 gauges..... 1 40
7 and 8 gauges..... 1 65
5 and 6 gauges..... 1 90

Adzes.
Discount, 33½ per cent.
Anvils.
Per lb..... 0 10 0 12½
Anvil and Vice combined,
each..... 4 50
Wilkinson & Co.'s Anvils, lb..... 0 09½
Wilkinson & Co.'s Vices, lb..... 0 09½ 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised
list.
Hollow Stearn's, per dozen... 13 00 20 00
Adjustable Stearn's, each... 4 50 6 50
Post-hole, Vaughan's, each... 6 00 9 00

AXES.
Splitting Axes..... 5 25 5 50
Chopping Axes—
Single List, per doz..... 6 00 12 00
Double List, "..... 11 00 18 00
Bench Axes, 40 and 15 p.c.
Broad Axer, 33½ per cent.

Bath Tubs.
Zinc, discount..... 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised
list. Boxing extra

Anti-Friction Metal.
"Tandem" A..... per lb. 0 19
" B..... 0 16
" C..... 0 10½
" Monarch " 1..... 0 21
" 2..... 0 15
" 3..... 0 10
" Canadian "..... 0 08½
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal..... 0 15
Mystic Metal..... 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.
Door.
Gongs Sargent's..... 5 50 8 00
" Peterboro', discount 50 per cent.
Cow.
American make, discount 66½ per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each..... 1 25 3 00

House.
American, per lb..... 0 35 0 40
Bellows.
Hand, per doz..... 3 35 4 75
Moulders, per doz..... 7 50 10 00
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47½ to 50 per cent.
Expansive
Clark's 40 per cent.

Gimlet.
Clark's, per doz..... 0 65 0 90
Diamond, Shell, per doz..... 1 00 1 50
Nail and Spike per gross..... 2 25 5 20

Blind Rollers.
Annex, per doz..... 1 25 1 75
Mascott, "..... 1 35 1 85
Erminie, "..... 1 00 0 00

Blind and Bed Staples.
All sizes, per lb..... 7½ 0 12

Bolts and Nuts.
Norway Bolts, full square..... 70
Common Carriage Bolts, 5-16 & under..... 60
" " " ¾ and larger..... 55
" " " full square..... 70
Machine Bolts, all size..... 60
Coach Screws..... 75
Sleigh Shoe Bolts..... 75
Blank Bolts..... 60
Bolt Ends..... 65
Nuts, square..... 4½ c.
Nuts, hexagon..... 70
Tapping Nuts..... 70
Tire Bolts..... 65 and 10
Stove Bolts..... 65 and 10

Boot Calks.
Small and medium, per M..... 4 50
Small heel, per M..... 4 25

Broilers.
Light, dis. 65 to 67½ per cent.
Reversible, dis. 65 to 67½ per cent.
Vegetable, per doz., dis. 37½ per cent.
Henis, No. 8..... 6 00
Henis, No. 9..... 7 00
Queen City..... 7 50 0 00

Butchers' Cleavers.
German, per doz..... 6 00 11 00
American, per doz..... 12 00 20 00

Building Paper, Etc.
Plain building, per roll..... 0 30
Tarred lining, per roll..... 0 40
Tarred roofing, per 100 lb..... 1 45
Coal Tar, per barrel..... 3 75
Pitch, per 100-lb..... 0 60
Carpet felt, per 100 lb..... 2 10

Rail Rings.
Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Brass.
Wrought Brass, dis., 10 p.c. revised list.
Cast Iron
Loose Pin, dis. 60 to 60 and 10 per cent.
Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Gen. Bronzed, per pair..... 0 40 0 65

Cards.
Horse per doz..... 0 60 1 00

Carpet Sweepers.
Bissell, per doz..... 22 50
World, "..... 21 75
Daisy, "..... 24 00
Star..... 18 00
Crown Jewel, per doz..... 29 00
Grand Rapids, "..... 24 0 33 00

Carpet Stretchers.
American, per doz..... 1 00 1 50
Bullards, per doz..... 6 50

Castors.
Bed new list, dis. 55 to 57½ per cent.
Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
Nos 31 and 32, per gross..... 8 50 9 50

Cement.
Canadian Portland..... 2 65 2 90
English..... 2 80 3 00
Belgium..... 2 50
Canadian hydraulic..... 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per
gross..... 0 45 0 75
White lump, per cwt..... 0 60 0 65
Red..... 0 05 0 06
Crayon, per gross..... 0 14 0 18

Chisels.
Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warnock's, dis. 40 and 10 per cent.

Churns.
Delivered from stock in Ontario: No. 0, \$2.85
No. 1, \$3.35—No. 2, \$3.25—No. 3, \$3.60—No.
4, \$4.35—No. 5, \$5.75. Delivered from stock.
Montreal: No. 0, \$3.05—No. 1, \$3.25—No.
2, \$3.45—No. 3, \$3.80—No. 4, \$4.55—No. 5,
\$6.05.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain..... 3 25
" embossed..... 3 50
Connections..... 1 10

Compasses, Dividers, Etc.
American, dis. 62½ to 65 per cent

Cradles, Grain.
Canadian, dis. 20 per cent from factory.

Dies.
Hart Mfg. Co. (pipe es), (Amer. list), dis
40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis.
per cent.

Door Springs.
Torrey's Rod, per doz..... (15 p.c.) 2 00
Coil, per doz..... 0 88 1 60
English per doz..... 2 00 4 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz. net list.
DRILL BIT.
Morse, dis. 37½ to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz..... 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10
70 per cent.
Black Diamond, 50 and 10 to 60 per cent
Kearney & Foote, 60 and 10 per cent to 60,
10, 10.
Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Mechanics' Star & File Mfg. Co. Discoun
60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60,
and 5 p.c. revised list.

FREEZERS
Ice Cream.
White Mountain, 1 to 25 qt..... 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
Henis', per doz..... 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each..... 1 65 2 40

GLASS.
Window.
Box Price.

	Star.	Double Diamond
Size United Inches.	Per 50 ft.	Per 100 ft.
Under 25	1 80	3 50
26 to 40	1 95	3 80
41 to 50	4 20	6 75
51 to 60	4 50	8 00
61 to 70	4 80	8 75
71 to 80	5 20	9 75
81 to 85	5 80	10 75
86 to 90	6 80	13 00
91 to 95	14 75	14 75
96 to 100	16 75	18 75
101 to 105	18 75	22 75
106 to 110		

HALTERS.
Rope, ¾ per gross..... 8 25 8 55
" ½ "..... 9 25 9 50
" ¼ "..... 11 00 11 20
Leather, 1 in., per doz..... 3 87½
" 1½ in., "..... 5 15 5 30
Web, — per doz..... 1 87 2 45

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis.
25 to 27½ per cent.

Tack.
Magnetic per doz..... 1 10 20

Sledge.
Canadian, per lb..... 0 07½ 8½

Ball Pean.
English and Can., per lb..... 0 22 25

HANDLES.
Axe, per doz., net..... 1 50 2 60
Store door, per doz..... 1 00 1 50
Chest, per doz. pairs..... 0 40 2 50

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz..... 1 00 25

Plane.
American per gross..... 3 1

Hammer and Hatchet.
Canadian, 45 per cent.
Cross-Cut Saw.
Canadian, per pair..... 0 13½ 0 20

HANGERS.
Door, 4 and 5 inch, per pair..... 0 40 50
Lanes, 62½ per cent.

HATCHETS.
Canadian, dis. 40 to 42½ per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.
Heavy T and strap, 4-in., per..... 0 05
" 5-in., "..... 0 04½
" 6-in., "..... 0 04½
" 8-in., "..... 0 04½
" 10-in., "..... 0 04½
crew hook and hinge—
6 to 12 in., per 100 lbs..... 3 75
14 in. up, per 100 lbs..... 3 00
Spring..... Per gro. pair 8 50

HOES.
Garden, Mortise, etc., dis. 60, 10 and 5 p.c.
Planter, per doz..... 4 00

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		
Wire.		
Hat and coat, discount 60 per cent.	3 35	
Belt, per 1,000.	0 60	0 70
Screw, bright, dis. 65 and 10 per cent		

HORSE NAILS

"C" brand, 50 p.c. dis. } Oval head.		
"M" brand 50 p.c. } P. B., dis. 50 p.c.		
Acadian, 50 and 20 p.c., countersunk head		

HORSESHOES.

Iron Shoes.		
F.O.B. Toronto.		
Light, medium, and heavy.	3 35	
Snow shoes.	3 60	

Steel Shoes.		
Light, all sizes.	3 60	
Featherweight.	4 85	
Toe weight (steel).	5 85	

If shipped from factory, Montreal, 10c. per keg less.

ICE PICKS.

Star, per doz.	3 00	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis. 50 p.c.		
Cabinet, trunk, and padlock,		
Am. per gross.	1 60	

KNOBS.

Door, japanned and N.P., per doz.	0 90	
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, "	6 00	9 00
Shutter, porcelain, F. & L. screw per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7.00 doz. sets net. to 10 per cent.		
Christie, bread, cake, and paring knives, \$7.00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Heath's, \$7.75 net.		

LEMON SQUEEZERS.

Porcelain lined, per doz.	2 20	5 60
Galvanized, "	1 87	3 85
King, wood, "	2 75	2 90
King, glass, "	4 00	4 50
All glass, "	1 20	1 30

LINES.

Fish, per gross.	1 05	2 50
Chalk, "	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	2 00	2 20
Cabinet.		
Eagle, dis. 30 p.c.		

Padlock.

English and Am., per doz.	50	6 00
Scandinavian, "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmiths', per doz.	1 25	1 50
Carpenters', hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each	60	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS

Quotations are:		
Cut.		
2d. and 3d.	\$2 05	33 55
3d.	2 70	3 20
4 and 5d.	2 65	2 95
6 and 7d.	2 45	2 85
8 and 9d.	2 20	2 70
10 and 12d.	2 15	2 65
16 and 20d.	2 10	2 65
30, 40, 50 and 60d. (base).	2 05	2 55
Steel Out Nails 10c. extra		

Bad and finishing nails, special sizes, 80 p.c. from new list.

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon,		
per gross.	3 38	4 00
Diamond.	12 00	15 00

NETTING.

Poultry, 50 and 5 per cent. for McMullen's.		
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OIL.

Canada refined (Toronto).	0 13½	
Sarnia Water White.	0 15	
" Prime Water.	0 14	
American w. w.	0 16½	
Pratt's Astral.	0 18	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	9 00
Zinc and tin, dis. 50 and 10.		
Copper, per doz.	1 25	3 50
Brass, "	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, per doz.	1 85	3 00
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PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head, "	0 40	1 00

PIPE CUTTING MACHINERY

Forbes Patent Die Stocks.—Curtis & Curtis, Mfrs., Bridgeport, Conn.		
No. 30 Hand Machine, range ¼ to 2 in. R. & L.	\$ 50 00	
No. 38 Hand Machine, range 1½ to 2 in. R. & L.	100 00	
No. 56 Hand Machine, range 2½ to 6 in. R. & L.	175 00	

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle	0 22	0 33
Screw	0 27	1 00
Awning.	0 35	2 50

PUMPS.

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers', per doz.	1 00	1 85
Conductors', "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 00

RAKES.

Cast steel and malleable Canadian, list dis 60 to 60, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s, per doz.	8 00	18 00
Boker's, "	7 50	11 00
Wade & Butcher's, "	3 60	10
Arbenz's, "	9 00	18
Theile & Quack's, "	7 00	12

RIVETS AND BURRS.

Carriage. Section, Wagon Box Rivets, etc. (Steel). 60 p.c.		
Carriage. Section, Wagon Box Rivets, etc. (Norway Iron), 55 p.c.		
Black M. Rivets (Steel), 60 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb. cartons, ½c. per lb.		
Extras on Iron Rivets in ½lb. cartons, 1c. per lb.		
Copper Rivets & Burrs. 35 p.c. dis., and cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in ½lb. cartons, 1c. per lb.		
Burrs. iron or steel. 50 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
------------------------------------	--	--

ROPE, ETC.

Sisal.		
Manila.		
7-16 in. and larger, per lb.	10	11
¾ in.	10½	11½
¼ and 5-16 in.	11	12
Cotton		13
Russia Deep Sea		14½
Java	6½	7½
Lath Yarn	8½	
New Zealand Rope	9½	

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 65	
N.P., per set.	0 80	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
---------	------	------

SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid, "		1 25

SAWS.

Hand, Diston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.		0 75

SAW SETS.

"Lincoln," per doz.	5 50	6 00
---------------------	------	------

SCALES

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion, 60 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.

Door, patent, per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS

Sargent's, per doz.	65	1 00
---------------------	----	------

SCREWS

Wood, F. H., iron, and steel, 82½ and 5 p.c.		
Wood R. H., dis. 75 and 5 p.c.		
F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., " dis. 67½ and 5 p.c.		
" F. H., bronze, dis. 67½ and 5 p.c.		
" R. H., " 62½ and 5 p.c.		
Drive Screws, 82½ and 5 per cent.		
Bench, wood, per doz.	3 25	4 00
" iron, "	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
-------------------------	------	------

SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
------------------------	--	--

SHEARS

Seymour's, dis. 50 and 10 p.c.		
Heinisch, dis. 50 and 10 p.c.		
Clauss, full nickel, 50 and 10 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 5 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme	3 00	5 00
Lock, Andrews.	4 30	11 50

SOLDERING IRONS.

Per lb.		0 25
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WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
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SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized	3 00	
Bright	2 75	

STOCKS AND DIES.

American dis. 25 p.c.		
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STONE.

Washita, per lb.	0 28	0 60
Hindostan, "	0 06	0 07
" slips, per lb.	0 09	0 39
Labrador, "	0 13	
" Axe, "	0 15	
Turkey	0	
Arkansas	0 00	1 50
Water-of-Ayr	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind. per ton	15 00	18 00

Stove Polish.

No. 4—3 dozen in case, net cash	\$4 50	
No. 6—3 dozen in case, "	7 50	

STEP LADDERS.

Best grade, from 3 to 10-ft. long, per foot, 16c		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS, BRADS ETC.

	Per cent.
Strawberry box tacks, bulk	75 and 10
Cheese-box tacks, blued	85 and 10
Trunk tacks, black and tinned	85 and 10
Carpet tacks, blued and tinned	80 and 10
" (in kegs)	45
Cut tacks, blued, in dozens only	75 and 12½
" ¾ weights	60
Swedes, cut tacks, blued and tinned—	
In bulk	80 and 20
In dozens	75
Swedes, upholsterers', bulk	85 and 10
" brush, blued and tinned, bulk	75
" gimps, blued, tinned & japanned	75
Zinc tacks	60
Leather carpet tacks	30
Copper tacks	50
Copper nails	52½
Trunk nails, black and tinned	70 and 12½
Clout nails, blued and tinned	70 and 10
Chair nails	40
Cigar box nails	40
Patent brads	45
Fine finishing	45
Picture frame points	25
Lining tacks, in papers	10
" in bulk	10
" solid heads, in bulk	80
Saddle nails in papers	10
" in bulk	15
Tufting buttons, 22 line, in dozens only	10
Tin capped trunk nails	15
Zinc glazier's points	5
Double pointed tacks	10

ISLAND CITY Paint and Varnish Works

.. Manufacturers of ..

**READY MIXED PAINTS and
FINE COACH VARNISHES.**

WAREHOUSES: 100 and 102 Bay St., TORONTO.
188 and 100 McGill St., MONTREAL.
WORKS 274 St. Patrick St., MONTREAL.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting — and — Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

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Reads every newspaper in Canada and clips there-
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papers say about themselves on any subject in which
they are interested. Business men learn of new
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of people likely to become buyers, tenders wanted,
stocks for sale or wanted, reports of new industries
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Terms—\$5 per hundred clippings: \$40 per
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tract will be found the most satisfactory.

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ESTABLISHED 1849.

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THE BRADSTREET COMPANY,
Executive Offices Proprietors.

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Offices in the principal cities of the United
States, Canada, the European Continent,
Australia, and in London, England.

The Bradstreet Company is the oldest and, financially,
the strongest organization of its kind—working in one
interest and under one management—with wider rami-
fications, with more capital invested in the business, and
it expends more money every year for the collection and
dissemination of information than any similar institution
in the world.

TORONTO OFFICE.

McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

PERSONS addressing advertisers
will kindly mention having
seen their advertisement in
Canadian Hardware and Metal
Merchant.



"BUILD TO-DAY THEN,
STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
— Longfellow.

DO YOU?

WISH THUS TO BUILD
an
advertisement
in the
CONTRACT-
RECORD.

TORONTO
will bring you
tenders from the
best contractors

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



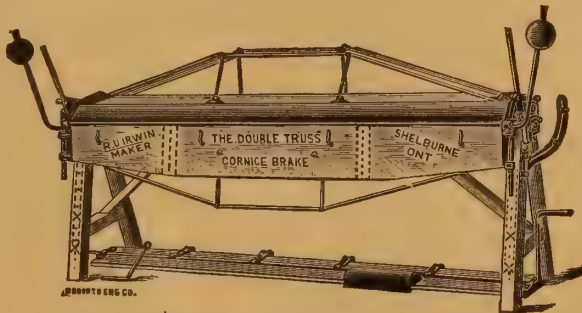
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CATALOGUE.

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

**The Double Truss Cornice
Brake Co. SHELBURNE, ONT.**

Trade "DAISY" Mark.



Trade "DAISY" Mark.

The "Daisy"

REVOLVING
BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

Gold Medal at Atlanta, 1895

TRADE MARK.



TO INSURE COMFORT AND SAFETY

...USE...

"Maltese Cross" Inner Tubes

AND



The Toronto Rubber Co.

Limited

185 Yonge Street - TORONTO, CANADA

Robertson's Ready-Mixed Paints

Nothing but intrinsic worth would increase their sale. They are without exception

THE FINEST PAINTS MADE.

That is why they sell so well.

Old customers increase their orders.

New customers are constantly appearing.

Their unparalleled success demonstrates that merit is appreciated.

THE JAMES ROBERTSON CO., Limited

263-285 King Street West, TORONTO

Telephones 819, 1511 and 1292.

THE PAINT MAKERS

UNEQUALLED VALUE.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, APRIL 29, 1899.

NO. 17



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—318 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,
266 and 267
West St., New York

GOOD WORK

MEANS

GOOD PAY.

"Queen's Head"

INSURES

GOOD WORK.

John Lysaght, Limited

BRISTOL, ENG.

MONTREAL.

25 Ideas

for 1 cent.

THEY are yours for a post card—
twenty-five ideas in Radiators.
Each idea represents a style of
its own for a definite purpose, for all
folks who use (or want to) Radiators
that won't leak, and give quick, posi-
tive circulation in a minute after the
heat is turned on.

Twenty-five ideas for
a cent—isn't it worth your while to send for them
and thus know all about the largest Radiator Man-
ufacturers under the British Flag? The origina-
tors of the Screw Nipple connection that does
away with bolts, rods, packing, and absolutely
prevents even a suspicion of a leak.

The
Safford
Radiators

The Dominion Radiator Company

LIMITED

TORONTO, ONTARIO

RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."
"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

CANADA'S BEST SCALES



GURNEY

Accurate and
Durable.

NEW CATALOGUE

DISTRIBUTED RECENTLY.

Have you received a copy of it?

THIS NAME
GUARANTEES
THE QUALITY.



THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.



No. 671—Spoon Holder.



No. 671—Cream.

The Toronto Silver Plate Co.

Limited

make a specialty of

SILVERWARE

suitable for . . .

Hotel,
Club,
Steamboat and
Dining Car
PURPOSES.

Factories and Salesrooms—

KING ST. WEST,
Toronto, Canada

E. G. Gooderham,
Managing Director.



No. 671—Sugar.

Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN
COTTON RUBBER LINED

TRADE
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

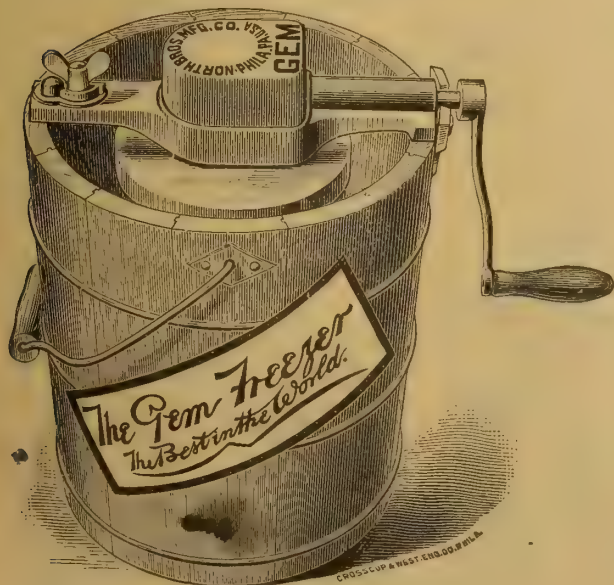
Head Office and Factories, Montreal.

Ontario Branch, - Toronto.

Western Branch, - Winnipeg.

"GEM" ICE CREAM FREEZER

1, 2, 3, 4, 6, 8, 10, 12, 14 Qts.



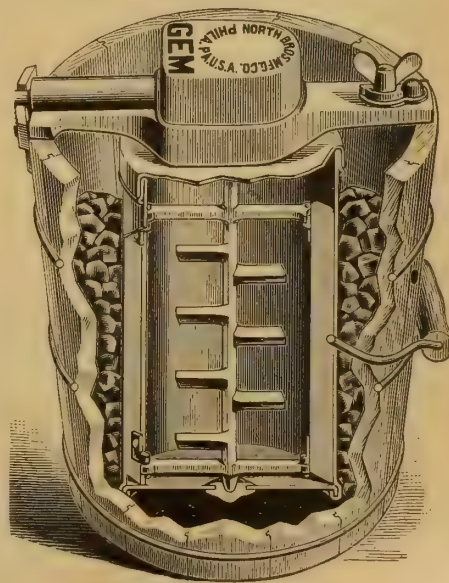
New Automatic Twin Scrapers

that insure positive and continuous scraping of frozen cream from side of can.

They also have:

WHITE CEDAR PAILS with Electric-Welded Wire Hoops, guaranteed not to break or fall off.

DRAWN-STEEL BOTTOM CANS, guaranteed not to break or fall out. Strongest and most durable Pails and Cans. Made and used only in Freezers made by



Interior View.

Showing new Automatic Twin Scrapers, and with the Dasher or beater which has been a favorite for many years.

The Electric-Welded Wire Hoop Cedar Pails and Drawn-Steel Bottom Can are also shown.

THE Gem is the only double-action Freezer of reputation made to-day. Why? Because all imitations of it have failed, and the Gem is the only one that has stood the test of practical use. The Gem has been the model to other makers for all that was best in an ice cream freezer, and has been imitated (without success) more than any other freezer made in the last twelve years.

NORTH BROS. MFG. CO.,

Philadelphia, Pa.

CATALOGUES mailed free
...on application.

SOLD BY LEADING JOBBERS EVERYWHERE.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED
DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

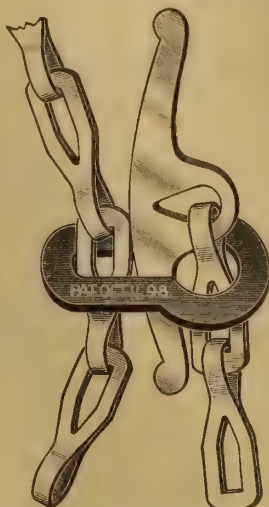
"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899)

which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.



Ring easily ADJUSTED until
Toggle is in place, then absolutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.



David Maxwell & Sons

ST. MARYS, ONT., CANADA

"Maxwell Favourite Churn"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

Lawn Mowers.

High and Low Wheels, from 12-in. to 20-in. widths. Cold Rolled Steel

Shafting, Crucible Steel Knives and Cutting Plate.

Wheelbarrows.

In Four Different Sizes.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.

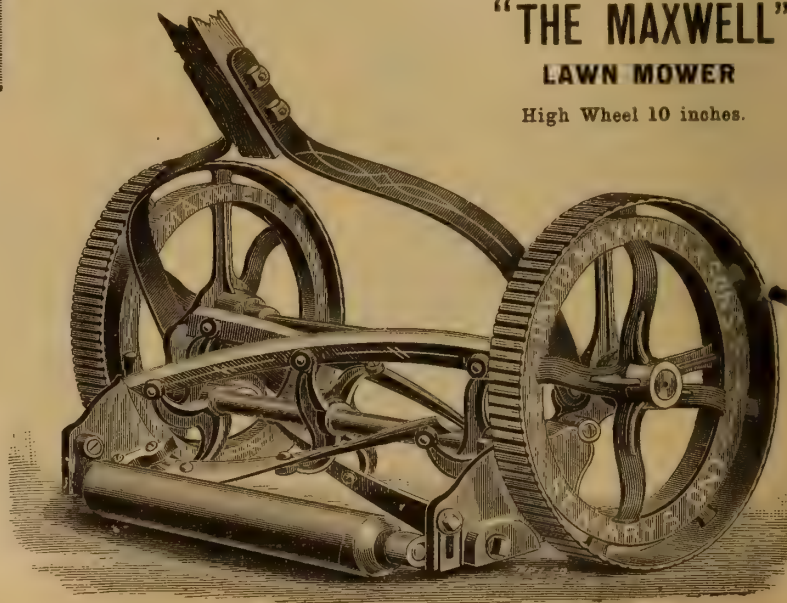
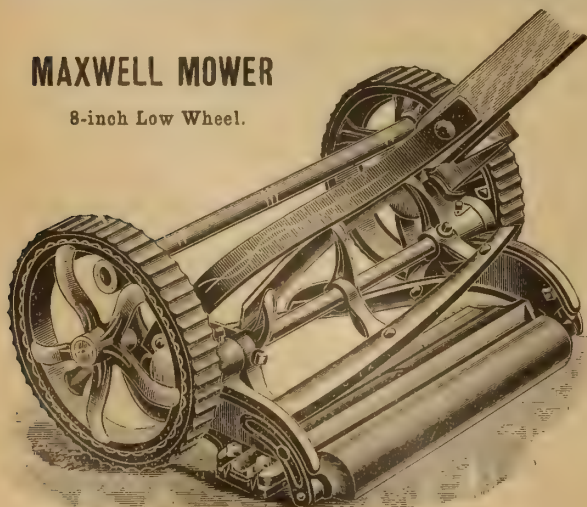
"THE MAXWELL"

LAWN MOWER

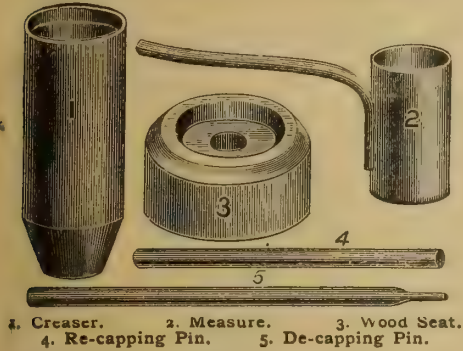
High Wheel 10 inches.

MAXWELL MOWER

8-inch Low Wheel.

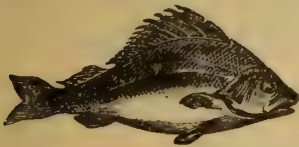


RELOADING SETS FOR Snider Shot Cartridges



Lamplough & McNaughton, Montreal

Fishing Tackle.



ALLCOCK'S STAG BRAND



TRADE MARK
The Allcock, Lait & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

The Leader Churn

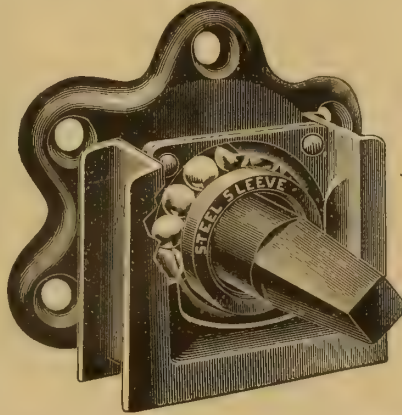
(TWO STYLES.)

1898 Stand, with lever attachment.
1899 Stand, with Anti-Friction Steel Ball Bearings.

INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.
Make no mistake—order Leaders.
SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as
supplied with new pattern stands. Easiest
running and most durable bearing made.



This is our Latest Stand, with
Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

YOU CAN'T FIND BETTER
SUMMER STOCK than our

Oxford Gas Ranges

We make a comprehensive range of sizes and styles to suit all needs. The Reversible Oven Burners, Flush Top, Improved Oven Burner Lighter, Large Equal Sized Roasting and Broiling Ovens, and Specially Perfected Valves and Burners, make them more convenient and economical in operation than any others.

We have also full lines of QUICK MEAL Gasoline, and Wick and Wickless Blue Flame Oil Stoves, for which we are sole Canadian agents.



OXFORD and QUICK MEAL

Lines cover all possible Summer Stove needs. They are in popular demand everywhere.
Write for Catalogues with full information.

The Gurney Foundry Co., Limited - Toronto.

The Gurney-Massey Co., Limited, Montreal.

"Gordon Crown" GALVANIZED IRON

Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

	24	26	28 gauge
72 x 30	70	97	113 sheets
96 x 30	52	73	84 "

This is the **LIGHTEST IRON MADE.**

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE :

Samuel, Sons & Benjamin
164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

HEADQUARTERS.

Sanderson Percy & Co.

FINE COLORS, WINDOW GLASS, ETC.

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Steel Tray Wheelbarrows

**Tubular
Meaford (Columbus)
Railroad or Navvy**

With Steel Trays (Pan American).

Eastern Agent —

ALEXANDER GIBB

22 St. John Street. - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

Meakins & Co.

313 St. Paul Street,
... MONTREAL

Brushes

After May 1st will
be known as

Meakins & Co.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter,
and a Binder will run all day with them with-
out stoppage, thus saving time, annoyance
and an endless lot of trouble.

We pack our twine in bags of the size of ordin-
ary grain bags and are not ashamed to put
our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED,
Montreal.

Enameline

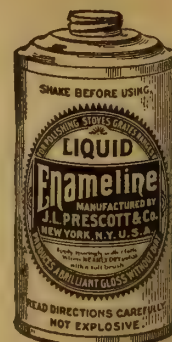
The Modern STOVE POLISH



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY



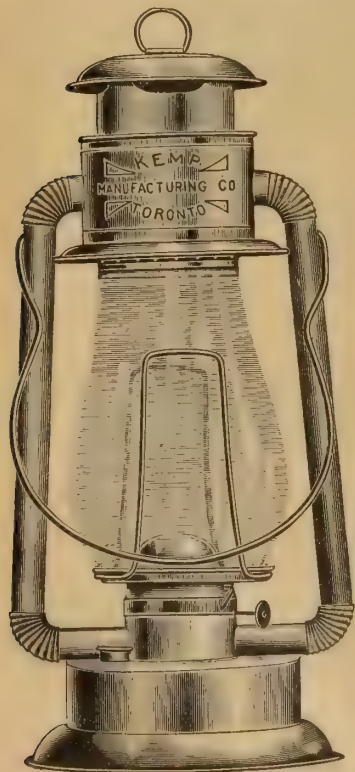
Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.

KEMP'S COLD BLAST LANTERN



The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



President, JOHN BAYNE MacLEAN, Montreal.
Treasurer, HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO.
Limited.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

OBNOXIOUS RULES ABOLISHED.

SHORTLY after acquiring Porto Rico, the United States, it will be remembered, applied to the coasting trade, between the new territory and the United States, the regulations in force between port and port in the latter country. In other words, vessels flying a foreign flag were prohibited from engaging in the carrying trade between Porto Rico and the United States.

As the United States was, at that time, contending so vehemently for the "open door" in China, their action was considered inconsistent.

To the Dominion, the regulations were particularly displeasing. The vessels engaged in carrying produce from the Maritime Provinces to Porto Rico had been accus-

tomed to take on a cargo at the latter place for points in the United States, thus insuring a cargo for at least part of the way home. This, they were, of course, prevented from doing when the new regulations went into force.

They could, of course, carry a cargo to Porto Rico and take on another one for a Canadian port; but the limited nature of the Canadian market, compared with that of the United States, obviously made it more difficult to get a cargo. The experience during the few months the regulations have been in force has proved this. Canadian vessels, rather than return light, have taken freight at almost any rate.

The exclusive character of the regulations has, however, proved inimical to the interests of the business men of the United States, as well as irritating to the foreign vesselowners who had hitherto shared in the trade. The trouble was a scarcity of United States vessels, which was affecting the trade between the United States and Porto Rico.

This stirred up the business men in the United States, and they accordingly represented to the War and Treasury Departments that a relaxation of the regulations was necessary if the trade of the Island was not to be stifled.

How successful they were in their representations may be gathered from the fact that, at a meeting of the McKinley Cabinet on Saturday last, it was decided to abolish the regulations at once.

This will be good news to Canadian vesselmen as well as to the United States business men engaged in the Porto Rican trade.

NEW LIST ON BRASS AND COPPER WIRE.

THERE has been another advance all round in the price of brass and copper wire, the most recent advance in this material being a rise of 15 per cent. on April 10 on the list adopted January 1. The new list in detail is as follows:

	Brass. per lb.	Copper. per lb.
Gauges 3-10	46c.	56c.
" 11-16	47c.	57c.
" 17-18	48c.	64c.
" 19-20	50c.	66c.
" 21	52c.	68c.
" 22	54c.	70c.
" 23	56c.	72c.
" 24	60c.	76c.
" 25	64c.	80c.
" 26	70c.	86c.

EXTRAS NET.

1-pound rings	1c.
½ and ¾-pound rings	2c.
1 and 2-ounce rings	4c.
Brass spring wire	2c.

For pure copper wire for electrical purposes, drawn from pure Lake Superior copper to Brown & Sharpe's gauge, Nos. 0000 to 8 base, prices on application to makers.

EXTRAS OVER NO. 8 GAUGE.

Nos. 9-12	Per lb.	No. 22	Per lb.
" 13	¼c.	" 23	4c.
" 14	½c.	" 24	4½c.
" 15	¾c.	" 25	6½c.
" 16	1c.	" 26	7c.
" 17	1¼c.	" 27	9c.
" 18	1½c.	" 28	10c.
" 19	2c.	" 29	11c.
" 20	2½c.	" 30	12c.
" 21	3c.	" 31	13c.
		" 32	14½c.

EXTRAS FOR TINNING.

	Per lb.
8 gauge and heavier	2c.
9-12 gauge	2½c.
13-14 "	2¾c.
15-17 "	3c.
18-19 "	4c.
20 and finer	5c.

Discounts on brass wire, 50 and 2½ per cent., and on copper, 45 and 10 per cent.

A combination is in process of formation among the file manufacturers in the United States. By filing down expenses it is doubtless the intention to work up the profits.

CHURNS ARE DEARER.

THE increased cost of raw material has now made its influence felt in regard to churns, the manufacturers in Canada having just announced an advance in their prices.

The increase is 15c. on each churn.

Quotations on revolving barrel churns are now as follows, f.o.b. Toronto: Metal frames—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. Wooden frames—No. 0, \$2.85; No. 1, \$3.05; No. 2, \$3.25; No. 3, \$3.60; No. 4, \$4.50; No. 5, \$5.90.

Quotations f. o. b. Montreal are: Metal frames—No. 0, \$3.20; No. 1, \$3.40; No. 2, \$3.60; No. 3, \$3.95; No. 4, \$4.70; No. 5, \$6.20. Wooden frames—No. 0, \$3.05; No. 1, \$3.25; No. 2, \$3.45; No. 3, \$3.80; No. 4, \$4.55; No. 5, \$6.05.

Terms are 4 months or 4 per cent. off 30 days.

The churn season is now on, and wholesalers are experiencing a good demand.

THE PRICE OF BROOMS.

Though there has been an advance of \$10 per ton in the price of broom corn in the United States, there is not likely to be any increase in the price of brooms in Canada, as the manufacturers are well stocked up with corn and will likely be able to fill orders, unless an exceptional demand sets in at present figures.

There seems to be no question, however, that the last crop of broom corn has been cornered, the large interest being The Central Illinois Broom Corn Association, which recently met at Charleston, Ill., and prices have been inflated in the United States market.

THE TIN SITUATION.

Slight irregularities have characterized the outside tin markets during the past week, but prices are, nevertheless, higher in London and New York than they were at the time of last review.

New York is fractionally higher. In London, futures on Wednesday were £2 above the figures of the previous Friday, and there was nearly the same appreciation for spot tin.

There is a feeling, however, that it is getting more difficult to maintain the high range of values which are ruling in London.

On April 21, spot tin was quoted at £113 17s. 6d. in London, compared with £64 16s. 3d. on same date last year.

A New York authority states that the greater portion of the visible supply has been sold to The American Tinplate Company. Since April 1, the arrival of tin at Atlantic ports is 4,550 tons, and the stock afloat is 2,500 tons.

BARBED WIRE AGAIN ADVANCES.

The past week has experienced another advance in Toronto in the price of barbed wire, figures having been marked up another 10c. per 100 lb.

The ruling figure is now \$3 per 100 lb. This makes the price in Toronto and Montreal uniform at \$3.

Barbed wire is now \$1.20 per 100 lb. dearer in the "Queen City" than it was six months ago.

The advance in Toronto this week is the same as that which took place in the United States. The price to retailers, f.o.b. Pittsburgh, is now \$2.80 in carload lots and \$2.90 in less quantities.

The demand for barbed wire in Canada is fairly good, but the home manufacturers are experiencing difficulty in getting supplies of raw material from the United States.

ANOTHER RISE IN HORSESHOES.

The continued advance in the price of raw material has led to a further rise in the price of horseshoes, which is quite appreciable, as will be noted from the following comparisons:

	New List.		Old List.	
	No. 2	No. 1	No. 2	No. 1
	and	and	and	and
	larger.	smaller.	up.	down.
Iron horseshoes	\$3.40	\$3.65	\$3.25	\$3.50
Light and medium pattern	3.65	3.90	3.50	3.75
Snow shoes	3.65	3.90	3.50	3.75
Steel shoes, all sizes 1 to 5	3.65	3.90	3.50	3.75
Featherweight, all sizes 0 to 4		4.90		4.75
Toe weight steel shoes, all forward		6.00		5.75

The above figures govern f.o.b. sales in Montreal, St. John, N.B., and Halifax, N.S. For f.o.b. sales in Toronto, Hamilton, London and Guelph, 10c. extra per 100 lb. is required.

SOLDERING IRONS ARE DEARER.

An advance of 25 per cent. is, this week, announced in the price of soldering irons.

The price per lb. now quoted by wholesalers is as follows: 2 lb. upward, 30c.; 1 to 1 1/2 lb., 33c.

DROPS FROM THE EDITOR'S PEN.

Goods that lie on the shelves pinch the profits.

A good "ad.," like a good plaster, draws well.

The average politician is more tricky than the average mule.

A lazy man has a hard time trying to make his bed soft.

He who studies to please his customers does not study in vain.

Merchants, like children who run too fast, are in danger of falling.

There is nothing like loafing to help a man not to have an easy time.

The deadbeat never dies, but he manages to kill the profits of his victims.

Hold fast to the position you have rather than trust to others you know not of.

Courtesy does not cost much, but it is a most valuable adjunct for getting trade.

Pedigree may set a man's tongue going, but it will not put motion into his muscles.

He who has energy is more to be envied than he who has even an illustrious pedigree.

Judging from the way Spring has come upon us it must have stepped upon a spring board.

Economy is a brake which prevents the money a man earns from running away from him.

Politeness loses none of its value because the recipients of it are sometimes unappreciative.

A cigar combination is mooted in the United States. It remains to be seen whether it will go up in smoke.

WILL RANGE BOILERS ADVANCE?

It is the opinion that before long an advance will be experienced in the price of galvanized range boilers.

At any rate, present wholesale prices are below the cost of importation. When stocks become exhausted we may, therefore, reasonably expect an advance. Possibly, however, it may come before that.

IRON PIPE IN MONTREAL.

THE long-expected advance in iron pipe values was established in Montreal last Saturday, the new scale taking effect from that date.

As will be seen, by a comparison of the old and new lists, prices at Montreal are materially higher on pipe, especially on galvanized:

Black Pipe.	New Scale.	Old Scale.
½ to ¾ inch.....	\$2 98	\$2 90
¾ " " " " " " " "	2 75	2 75
¾ " " " " " " " "	3 30	3 10
1 " " " " " " " "	4 50	4 40
1 ¼ " " " " " " " "	6 00	5 90
1 ½ " " " " " " " "	7 50	7 15
2 " " " " " " " "	9 50	9 70
Galvanized.		
½ to ¾ inch.....	5 64	5 55
¾ " " " " " " " "	6 64	5 90
¾ " " " " " " " "	7 41	6 55
1 " " " " " " " "	10 12	8 95
1 ¼ " " " " " " " "	14 03	12 40
1 ½ " " " " " " " "	17 16	15 15
2 " " " " " " " "	23 00	20 30

IRON PIPE HIGHER IN TORONTO.

It was intimated in last week's issue that a further advance in the price of iron pipe was probable. This week, we are able to announce that the advance has actually taken place.

The advance is all the way from 25c. to \$1.10 per 100 lb., according to size of pipe. The new figures, together with those ruling before, are as follows:

	New Price.	Old Price.
½ to ¾ inch.....	\$3 10	\$2 85
¾ " " " " " " " "	3 40	3 15
1 " " " " " " " "	4 85	4 50
1 ¼ " " " " " " " "	6 50	6 00
1 ½ " " " " " " " "	8 00	7 40
2 " " " " " " " "	11 00	9 90
2 ½ to 6 " discount, 60 and 10 p.c.		65p.c.

The demand for iron pipe is brisk at the advance.

Negotiations for the consolidation of the iron pipe interests of the United States are understood to be progressing satisfactorily, and they are expected to be completed in less than two months.

REVISION OF HAMMER PRICES.

Owing to the gradual increase in the cost of the raw material, a revision of the price of all kinds of hammers has just been made.

The manufacturers claim that their material is costing them 33⅓ per cent. more than formerly.

Retailers should take advantage of the appreciation in values to get a little more money for the hammers they have in stock.

LARGE STEEL PLANT FOR BUFFALO

Mr. Archer Brown, of the firm of Rogers, Brown & Co., on Saturday, according to New York Journal of Commerce, confirmed

the report that an immense steel plant was to be erected at Stony Point near Buffalo. The report that \$15,000,000 capital would be invested was, Mr. Brown stated, no exaggeration, and, in fact, added that the plant when completed would represent nearer \$25,000,000. The plant is to include over 800 acres and a large payment on the land has already been made.

The new plant is to be erected for the purpose of manufacturing steel and iron in all forms. The enterprise, Mr. Brown said, was not a consolidation, but meant the employment of new capital. The securities are not to be offered to the public. As to who the large backers were he could not state. His firm, he said, were not the prime movers, as had been reported, though they had assisted in the negotiations. Mr. Rogers, of the firm, resides at Buffalo. In this connection, The Buffalo Commercial said: "Although the names of the men behind the great project cannot be made public at this time, it is an open secret that the enterprise has the financial backing of one of the largest iron and steel industries in the State of Pennsylvania, if not in the entire country. Those familiar with the interests of this industry will instantly recognize from this statement the unlimited power behind the combination to bring the immense plant to Buffalo."

The new plant, it is stated, is to have an annual output of from 800,000 to 1,000,000 tons of steel annually. It is reported that Buffalo capitalists subscribed \$2,500,000 to the enterprise.

ELECTRIC LIGHTING IN HALIFAX.

At the convention of the electric light men in Halifax, last week, W. Pickles, electrical contractor, read a paper on the "History of Electric Lighting in Halifax." The first electric lighting plant in Nova Scotia was a small plant run by The Dartmouth Rope Works. In 1881, there was an exhibition of the light on Lawson & Harrington's wharf. The Halifax Electric Light Company was started a year later, with an installation to feed 35 street lamps and 40 commercial. They lighted the Halifax Club. They were bought out by the Halifax Gas Company. Soon after, strange to say, a new company was formed, with two stations. They obtained the contract for street lighting, and erected a plant at the north west arm, which was found unsatisfactory. This company changed to Moren's wharf and finally the Halifax Tramway Company was started, the street railway was built, and the present splendid equipment is being operated under the able management of F. A. Huntress, assisted by J. Crosby. The apparatus consists of 800 k. w. for incandescent work and 900 k. w.

for railway, 250 k. w. for arc lamp service, operating 32 cars, 14,500 incandescent lamps, 240 arc lamps and 300 horse-power in motors.

AMONG TORONTO RETAILERS.

Outdoor Displays.

The hardware dealer is about the only merchant who can display his wares outside his shop without danger of them being soiled by dust, dirt or sunshine. The effect of dust or sunshine on dry goods or groceries shows itself if these goods are put outside two or three days in succession. Yet, many of the brightest retailers of these goods do make outside displays. They claim that the results of this method of showing their goods are so great that it more than counterbalances the loss therefrom. The hardware dealer has the advantages without the disadvantages of outside display.

In talking to a hardwareman the other day, I asked if there were any direct results which prove this manner of showing goods a good one. In front of his store were garden tools, etc., of all sorts, wheelbarrows, lawn-mowers, rakes, hoes, spades, shovels, rubber hose, wire netting, wire, watering cans, etc. A large card was placed in a prominent position. This gave all information regarding prices.

"Direct results," answered the hardwareman to my question. "Why, yes. Passers are attracted by one article or another, which, possibly they have been wanting, but forgot to buy. They stop and examine it; look at the price, and if it suits them they call one of the clerks out to sell it to them. They don't have to call often, though, for it is part of the clerks' duty to watch for outside customers."

"Do you push sales outside?"

"No; I believe it bad policy to hurry a possible customer inside or out. If a man examines an article, and does not like it, we show him a different one if we have it in stock; if not, we don't worry him. A store should always make customers feel at liberty to examine stock without having to buy. But, if a customer says he wants to get something, then it is the clerk's duty to try and push a sale; to satisfy the customer if there is anything in the store that will do it."

The general opinion seems to be that the outside display need not be gotten up with the care and labor that is put into the window display. The articles should be distributed in front of the store, so as not to obscure the window, wherein finer goods can be made into a more elaborate display. Among the suitable goods for window displays at present are house-cleaning appliances, paints and oils, mechanics' tools, and fishing supplies.

THE RAMBLER.

A RETAILER WHO DOES A CASH BUSINESS.

By William Nimmo, Ravenswood, Ont.

I am pleased to see from the last issue of your journal, that there is such a lively interest being taken in the cash system of doing business. I have been in business here, in Ravenswood, for over twenty-seven years, and have had an experience that may be of some use to my fellow-merchants, and, as I am a believer in

HELPING ONE ANOTHER,

I will give you my views on the subject, hoping they may be the means of assisting a few of those who are undecided what course to pursue.

I am one of your old subscribers, and I have been a very careful reader, from week to week, during that long period.

About six years ago, THE CANADIAN GROCER printed a series of articles on the cash system of doing business, and these articles made me pause and consider whether I was

MAKING ANYTHING.

out of credit accounts. After a careful examination, I found out that my cash sales were paying me a profit, and that my credit sales were very unprofitable, as I had to wait till my customers were ready to pay their accounts.

For instance, after they paid their notes on the binder, their interest on mortgages, and their notes on ploughs, etc., in a great many cases it would be from 12 to 18 months before their store bill would be paid, and very often I would have to take butter at from 2 to 4c. more than I could get for it when sold. I did business on these lines for 22 years.

Five years ago, I advertised that on and after a certain date I would sell for

CASH AND EGGS ONLY,

and on that date I closed my books never to open them again. Since that time I have given no credit whatever, and never will. The cash system has given me so great satisfaction that I would not take any man's cheque for \$1,000 and again go back to the credit system for five years. My only regret is that I did not adopt the cash system 20 years ago. It must be borne in mind that no man can do

A CASH BUSINESS AT CREDIT PRICES.

I reduced my prices to the smallest possible margin, and let the people know my terms through our local paper. I enclose my advertisement for the current week. You can use it in whatever way you so desire. Any merchant looking over my advertisement will see at a glance that it would be impossible to give a year's time and run the risk of losses at these prices.

It is admitted by all merchants that the

man who can pay his bills in 10 days and save his discounts has

THE INSIDE TRACK

when buying, and, if there are any "sugar-plums" to be had in the wholesale houses, he is sure of the lion's share.

Now, how is it possible for a merchant to save his discounts who carries a stock of, say \$5,000 on a capital of from \$3,000 to \$5,000, and bear the burden of 200 or 300 accounts that run open from six to 18 months? It cannot be done, and, if it can, I would like to know how. There is only one way that I know of, and that is:

SELL FOR CASH ONLY,

reduce stock to capital, and then there is clear sailing. I have tried it, and have succeeded. You can do so if you have determination. You may lose a few customers, but you will be sure to receive others to take their places. Why should we be the bankers and commission merchants of the farmers? In nine cases out of ten, they are in a better position to borrow money for their current expenses than the merchant is, and, when they have produce to sell, let them go with it to a produce dealer, and if we sell them goods at a reasonable profit they have no right to expect more favors from us than anyone else.

When I was doing

A CREDIT BUSINESS

I bought a dressed hog from one of my customers, who had a fifteen months' old account on my books. I told him that I would give him credit for the amount on his account. What do you think he said? "On no, I want the cash, pork is cash!" and I had to pay him the cash. And pray, can you tell me anything that the farmer has to sell for which he does not demand cash or its equivalent? This may appear an extreme case, but, I will venture the statement that there is not a merchant in Canada to-day, doing a country trade, who has not had a similar experience.

The farmer sells his grain, hay, straw, cattle, sheep, fowl, eggs, butter, cheese, potatoes, etc., etc., and what does he receive in payment? Cash. The only exception that I know of is when he is selling his farm, stock and implements, then

HE DEMANDS A JOINT NOTE.

from his own brethren (and I don't know a farmer that is not willing to sign these notes), and they must be satisfactory or the sale is off. He can then sleep in peace whilst Mr. Storekeeper does the worrying.

Merchants of Canada,

GET DOWN TO THE CASH SYSTEM, then you will have pleasure in your calling, and not till then.

I have just touched the border of what can be said in favor of the cash system, and I can assure you it will be interesting indeed to hear from others who are doing a strictly cash business like myself.

THE ADVERTISEMENT.

The following is as nearly as possible a facsimile, in reduced form, of Mr. Nimmo's advertisement, referred to in the above article.

ESTABLISHED 1872.

Nimmo's Cash Store, Ravenswood

20 lb. Redpath's Granulated Sugar.....	\$1 00
22 lb. Bright Yellow Sugar.....	1 00
12 Cakes Castile Soap.....	25
2 Bars Judd Soap.....	5
6 lb. Coronet Soap.....	25
1 Sailor Boy Soap.....	5
6 lb. Rice.....	25
6 " Tapioca.....	25
3 " Baking Soda.....	10
1½ " Jar Baking Powder.....	23
1 Tumbler Baking Powder.....	9
1 lb. Pure Pepper.....	17
1 " Mixed Tea.....	19
1 " Japan Tea.....	23
1 " Japan Tea.....	30
1 " Best Orange Peel.....	18
1 " Best Lemon Peel.....	18
1 " Icing Sugar.....	7
1 " Silver Gloss Starch.....	9
1 " Celluloid Starch.....	11
1 Box Eddy Matches.....	9
6 Doz. Clothes Pins.....	5
1 Doz. Safety Pins.....	5
4 Papers Pins.....	5
2 Cans Salmon, Red.....	25
1 Paper Shoe Protectors.....	10
6 Inch Flat Files.....	9
7 " ".....	10
8 " ".....	13
9 " ".....	17
10 " ".....	19
1 lb. Gunpowder.....	40
1 lb. Gun Shot.....	7
1 Box Gun Caps.....	9
1 Lantern Globe.....	7
1 Lantern Globe, Cold Blast.....	7
1 lb. Borax.....	10
1 Pair Men's Rubbers.....	59
1 Pair Lady's Rubbers.....	38
1 Tin Pail, 10 quarts.....	13
1 Tin Pail, 14 quarts.....	17
1 Boy's Sweater.....	50
Cotton Shirting from 5c. to.....	12
Table Linen from 19c. to.....	34
Cottonade from 13c. to.....	23
Brooms from 10c. to.....	25
4,000 Cedar Posts, each.....	6

Also everything to be found in a well regulated general store, and all sold at a moderate profit.

WM. NIMMO,

Ravenswood.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

A TALK ON BUSINESS ETHICS.*

By F. P. Haus.

I WANT to say one word in defense of the traveling men. You talk about a traveling man bumping a sucker's head. We will do it whenever we get a chance. The traveling man will help keep up this organization not because his heart is so touched, but because he has got a selfish motive for it. I heard a Baptist preacher say (I am not a Baptist myself) that in saving souls there was a selfish motive.

There was a man drowning when a man on the shore said, "Save that red headed man! Save that red-headed man!" I don't believe there is a red-head man in the house. But after the red-headed man went down two or three times, and was going down for the last time some men in a boat saved him and then inquired of the man, "Was he your father?" "No." "Was he your son?" "No." "Was he your son-in-law?" "No." "Was he your nephew?" "No." "Well, why were you so anxious to have him saved?" "Because he owed me two dollars and a half, and if he had been drowned I would never have gotten my money." Well, the hardware dealer is our red-headed man. He has a selfish motive in doing business. We are working to help you to help ourselves. You can count on us and if there is anything more honest than the traveling man I haven't met him.

CHANGED HIS MIND ABOUT FARMERS.

I used to think that the most honest man in the world was the farmer. Nearly four years ago I moved out on a farm and I had never been on a farm before, but I have been in the Charter Oak business for the past twenty-four years, being a traveling salesman for about twenty, and I have come across some customers I didn't believe to be honest. When farming I was passing a neighbor's house and noticed the farmer feeding his pigs salt and dry bran and asked him what he had mixed with his bran and he said salt. Now I was anxious to learn anything about hogs and anything that was good to feed them so I asked him what he mixed salt with bran for and he said because he was going to town to sell them. He put in salt so they would drink a great deal of water and weigh more. I was in a hardwareman's store one day and a man came in and said he wanted him to figure on an order. He looked over it and said "Well, you have been getting your hardware of Jones, how does it come that you come to me this time in preference to Jones?" He said, "Because I am going to give this bill to the man who will do it the cheapest and I want you to figure on it."

*Speech delivered before the Missouri Stove and Hardware Dealers' Association.

"Well, if it is going to make any difference in that I suppose Jones can buy goods as cheap as I can and I am not going to underbid him."

COMMERCIAL GREED

Now we generally think that it is not sufficient that we get our share of the business but ought to get a little of the other man's share. Another thing, we guarantee too much. We used to guarantee a fire-back for fifteen years, now we guarantee them for twenty years and go them five better. If ever my son went on the road I would tell him to be sure to be honest, not so much for the sake of honesty's sake or principle, but if for nothing else simply for policy's sake. It pays a man to be honest for policy's sake. No matter what a man may get from his own house, he generally tries to give the retailer the best of it and sometimes he runs up against a sore kick at the other end. The successful traveling man keeps in touch with his customers and knows whether this one is religiously inclined or whether he can be flattered in this way or that, and we can all be flattered and like it pretty well at times. But there are different ways to flatter, you must know the disposition of each one and go at him accordingly. Some business men entertain such prejudices against their neighbors that they will not buy if you mention the name of their fellow business man. The

good salesman knows this. If we can get this organization up and stick to it, it will be a success.

RESISTANCE OF ALUMINUM TO CHEMICAL ACTION.

One of the most important recommendations of aluminum for many purposes is its capacity of resistance to most chemical agencies. The reason why the metal possesses this property has recently been stated by Prof. A. Ditte, according to an exchange. He says that if aluminum does not appear to be attacked by air or water, or dilute sulphuric or nitric acids, it is due to the fact that it immediately covers itself with a layer of hydrogen, nitric acid, or alumina, which, being continuous, impermeable and very adhesive, prevents any contact between the metal and the liquid in which it is immersed. If this surrounding layer be by any chance removed then chemical action ensues, and the aluminum is completely dissolved. The protecting layer, the Professor says, is not proof against an acid salt, or common salt in the presence of such an acid as vinegar. This effect, however, does not act against the use of aluminum domestic utensils, as the aluminum compounds are not injurious to the system.

J. P. Lemon, general merchant, Churchill, Ont., is advertising his business for sale.

A BRITISH CLERKS' ORGANIZATION.

AT the annual meeting of The National Amalgamated Union of Shop Assistants of Great Britain, held in Bradford, England, recently, 49 branches, with a membership of 2,596, were represented.

The president, E. Lomas, Manchester, in his annual address, stated that the organization was strong, and the prospects of their power growing were most bright. The most important question they had to face was the remuneration of female labor. Their attitude must be that wherever women do the same labor as men they must receive the same remuneration for that labor.

The report of the general secretary, James Macpherson, stated that the income of the society for the year was £3,347, as compared with £715 five years ago. There were 86 branches, with a total membership of 3,285. Of these, 1,776 members had joined in the last year. This membership he considered too small, however, in the face of the fact that there are about 1,000,000 workers in the distributive trade of Great Britain, of whom fully 750,000 were eligible for membership. He advocated spending £500 for organization purposes.

Statistics were given, showing that in 114 shops, principally grocery and drapery shops, employing 3,855 persons, 1,357 were living in and 2,498 living out. Of these, 423 worked under 60 hours, 571 worked between 60 and 65 hours, 808 worked between 65 and 70 hours, 1,945 worked between 70 and 75 hours, and 108 between 75 and 85 hours. Of those working under 60 hours, fully 400 were workers of cooperative societies. Systematic overtime was worked in 26 of the shops concerned, and in one case only was the overtime paid for. Twenty-seven of the shops allowed only half an hour for dinner and twenty minutes for tea.

The union's opinion of the living-in system and the long hours in many shops was expressed in the following resolutions: "This conference reaffirms its previous declaration that the living-in system has been perverted into a profit-making department of the distributive trades to the detriment of the physical, moral and social well-being of the shop-workers, and is of opinion that the time has arrived when the union should take active steps for its abolition, and calls upon all shop-workers to protest wherever possible against this substitution of truck as part payment of wage in the place of current coin of the realm," and "This conference calls attention to the unpaid overtime which some workers have permitted employers to exact as a right, and further condemns gratuitous service, and calls upon all shop-workers to organize in order that they may be in a position to

abolish a system which the most unskilled laborers have long since refused to submit to." Both of these resolutions were passed without dissent.

The officers for the present year are: H. H. Roper, Lincoln, president; B. Wilson, Bradford, vice-president; James Macpherson, general secretary. The next annual meeting will be held in Bristol.

STILL'S HANDLE FACTORY.

J. H. Still, whose handle and turned goods factory at St. Thomas was destroyed last August, has rebuilt on a larger scale on the old driving park property, where he is fully equipped with modern machinery and prepared to fill all orders to the trade.

In the hardware business

we know of no goods which are better suited for side-lines
....than are the....

IVER JOHNSON FIREARMS AND BICYCLES.

—Profitable Hardware.—

Our bicycles and our firearms are the best that can be made. Dealers handling them sell them, and secure their profit. There is no loss of time, patience or money in repairing and replacing, etc.

When sold our goods stay sold.

Honest Goods at Honest Prices. : : Write for prices, terms, etc.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

Gilbertson's Galvanized Sheets

PATENT

COMET
BRAND

FLATTENED

are suitable for all kinds of Galvanized work demanding uniform quality; being made of superior Siemens Steel, they will double seam either way of grain, are smooth, soft, and well galvanized, every sheet being carefully selected; weight and count of sheets per case fully equal to the best known brands imported, and cost less.

GILBERTSON'S are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, thus enabling them to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"GILBERTSON'S" SIEMENS-MARTIN TINPLATES

are soft, extra well coated, noted for deep stamping qualities, and for canners of fruits, meats and fish have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Pontardawe,"
"Lincoln," "Comet," "Regina," "Gwynedd."

GILBERTSON'S TERNEPLATES, "Regina" brand.

IMITATION RUSSIA SHEETS—will not crack or scale. Pickled, cold rolled and close annealed.

SIEMENS-MARTIN STEEL SHEETS, close annealed, close annealed and cold rolled (flat and free from buckles), also pickled.

BLACK CEILING PLATES, "Comet" brand. Pickled, cold rolled and close annealed.

BLACK TAGGER PLATES. Pickled and close annealed.

Supplies carried by all wholesale jobbers. In ordering please mention brands.

ALEXANDER GIBB

Agent

... 22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

Wholesale Only

37-39 Front Street West, TORONTO

Garden Hose Sundries.

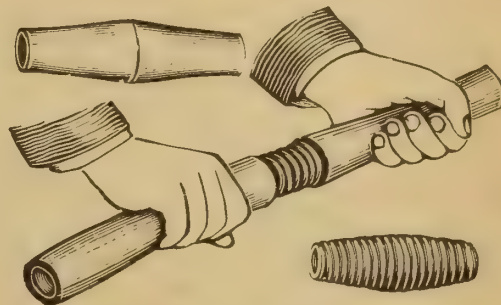


HOSE PLYERS.



HOSE COUPLINGS.

$\frac{1}{2}$ and $\frac{3}{4}$ in.

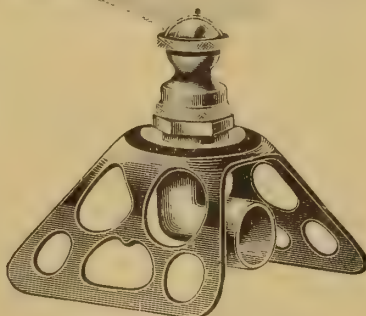


HOSE MENDERS.— $\frac{1}{2}$ and $\frac{3}{4}$ in.



HOSE CLAMPS.

$\frac{1}{2}$, $\frac{3}{4}$ and 1 in.



LAWN SPRINKLERS.

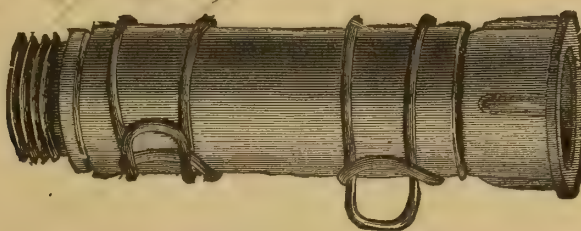


HOSE TIES.

$\frac{1}{2}$ and $\frac{3}{4}$ in.



MAGIC NOZZLES.



HOSE TIES.— $\frac{1}{2}$ and $\frac{3}{4}$ in.



HOSE.— $\frac{1}{2}$, $\frac{3}{4}$ and 1 in.



GEM NOZZLES.

H. S. Howland, Sons & Co., Toronto.

SEND FOR OUR
LATEST CATALOGUE.

GRAHAM WIRE AND CUT NAILS ARE THE BEST.

SEND FOR OUR
LATEST CATALOGUE.

AN ATTRACTIVE PAINT WINDOW.

ONE of the neatest, as well as most attractive, window displays the spring trade has seen, is that recently made by M. Weichel & Son, Waterloo and Elmira, and is the idea of Mr. W. G. Weichel, of Waterloo. Wishing to make a special feature of paints, oils, brushes, and spring cleaning requisites, Mr. Weichel had a nice display of these tastily arranged throughout the front part of the window. As every hardware dealer is thoroughly acquainted with the lines that are now seasonable, it is unnecessary to enumerate the lines shown.

Behind the small lines already mentioned, a pyramid of ready-mixed paints was erected, and above this the attractive feature and original idea of the window display was placed. Taking one of the large canvas lithograph show cards, showing the works and branches of the Sherwin-Williams Paint Co. and cutting out the windows and doors, as well as the windows and doors on the river tugs and the locomotives, and pasting red tissue paper over back of same, then lighting up from behind, gave a very attractive view of the works at night.

The work of cutting this card out took fully two days, great care being required so that the card should remain intact. But the interest aroused and increased business in these lines fully compensated the originator for his trouble, and stimulated his ambition to greater efforts along this line.

S. McK.

AMERICAN STEEL AND WIRE.

The Marine Review, of Cleveland, in its issue of last week said: "When it was announced some time ago that the American Steel and Wire Company had secured control of five modern steel freighters of the Zenith Transit Company, or Wolvin fleet, no reference was made to James J. Hill or the Great Northern Railway in the deal. It was known that Mr. Hill had been and is still figuring with Mr. A. B. Wolvin to take up the establishment of a line of steamers on the Pacific between Puget Sound and the Orient, but it has only lately been learned that he is also in close relations with the American Steel and Wire Company, and was not only instigative in having the Wolvin fleet go to that interest, but will probably soon stand in the same relation to the American Steel and Wire Company that John D. Rockefeller holds with the Carnegie Steel Company.

"In other words, Mr. Hill or the Great Northern Railway Company seems to have joined hands with the steel and wire combination in the work of developing railway, iron mining and dock interests in Minnesota,

and it will probably be found that before another year has passed the American Steel and Wire Company will have established, through these relations with the Great Northern, a position similar to that of the Federal Steel Company and the Carnegie Company—that of controlling a large part of the steel industry, from the ore in the mines down to the manufactured products."

GOOD MANNERS.

President Quincy was once riding to Cambridge in a crowded omnibus, when a colored woman entered. The president of Harvard University rose and gave her his seat, although at that time negroes were considered "only property." The author heard Fred Douglass say that he was ejected from a street car in Boston on account of his color.

Garrison was as polite to the furious mob that tore his clothes from his back and dragged him through the streets as he could have been to a king. He was one of the sincerest souls that ever lived.

Christ was courteous, even to His persecutors, and in terrible agony on the cross He cried: "Father, forgive them, for they know not what they do!"

The speech of Paul before Agrippa is a model of dignified courtesy, as well as of persuasive eloquence.


The finest type of the coming man will be a Christian gentleman.

Ross Winans, of Baltimore, owed his great success and fortune largely to his courtesy to two foreign strangers. Although his was but a fourth-rate factory, his great politeness in explaining the minutest details to his visitors was in such marked contrast with the limited attention they had received in large establishments that it won their esteem. The strangers were Russians, sent by the Czar, who soon invited Mr. Winans to establish locomotive works in Russia. He did so, and soon his profits resulting from his politeness were more than \$100,000 a year. Courtesy pays.

Not long since a lady met the late President Humphrey, of Amherst College, and she was so much pleased with his politeness that she gave a generous donation to the college.

Some men almost work their hands off, and deny themselves of the common comforts of life in their earnest efforts to succeed, and yet render success impossible by their cross-grained ungentlemanliness. They repel patronage, and business goes to others who are really less deserving, but more companionable.—Pushing to the Front.

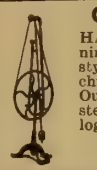
CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.




PRIEST'S CLIPPERS
Largest Variety
Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA



COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in a very style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS

McLaskill, Dougall & Co
Fine Varnish & Japan
Manufacturers.
Montreal
Price Lists on application



Size,
3/8-inch.

**Cheapest
IN THE
WORLD.**
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited



SEWALL & DAY CORDAGE CO.

45 BROAD STREET

Established 1835.

 **BOSTON, MASS.**



**This Brand is a guarantee of the Best
Binder Twine Made.**

For sale in Manitoba and N. W. Territories by
MASSEY-HARRIS CO., Limited, Winnipeg, Man.

In Ontario and Quebec by
**JOHN BOWMAN HARDWARE AND COAL CO.,
London, Ont.**
LEWIS BROS. & CO., Montreal, Que.

T. BURROWES ROSS

Canadian Representative
417 Board of Trade Building,
 **MONTREAL.**

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE STRENGTH OF LINSEED.

IT is claimed that the demand for oil during the past two months has been unprecedented, says The Oil, Paint and Drug Reporter. Such has the drain been on the resources of the mills that the supplies are very small, and some have nothing to offer beyond filling contracts and supplying their regular trade. The seed situation also is very strong, the supplies being light and prices advancing, as is shown by the very full report of our Chicago correspondent, who also gives the statistics of the movement of seed at that centre with the extent of the stocks. A new feature of interest, and one which affects the market for oil, is the market for cake and meal. These products are not in demand, and, in order to prevent undue accumulations, lower prices have been named, until at present there is such a disparity in the difference between the price of seed and cake that the price of the other product must of necessity be advanced in order that the business of crushing shall not be entirely unremunerative. The advance on oil announced during the past week was 2c. per gallon, and the prospects are that still higher prices will prevail before new seed becomes available.

IRON TRADE CONDITIONS IN ENGLAND.

The Iron and Steel Trades Journal of April 15 says:

"At Birmingham, yesterday, there was a very large attendance at the quarterly meeting of the iron trade, and with prices still advancing and with every prospect of active trade all the year, there was a very firm feeling on all sides. It is stated, and there are statistics to support the view, that the demand for new ships has eased off, and that later on the makers of steel for shipbuilding will have a quieter time. This need not be looked forward to as a coming calamity, for, judged by reports from all quarters, there is an immense amount of work coming forward which will be impossible to execute in this country until the demand from shipbuilders is not so inexorable and all absorbing. The high price of steel is adding substantially to the cost of new ships, and this naturally works against speculative building. It is probable that the amount of shipbuilding in hand has touched high-water mark, but it is quite certain that this branch of trade has still a long period of activity before it, and meanwhile there are immense possibilities for further development in the demand for railroad material, for electrical construction and for public works at home and abroad. At Birmingham, yesterday, manufacturers and merchants met together under more

favorable circumstances than three months since. Then, it seemed that the improvement in values on this side could not continue in face of the low prices current in the United States. For the first time in our history it seemed that our markets were opening for American imports and sellers of pig iron and steel were confronted with quotations for American material at prices which seemed to place even our home market in the hands of others. But even in January the threatened invasion was moving away, and now prices have advanced so rapidly in the United States that the producers' fears and the consumers' hopes of American competition have passed away."

HARDWARE TRADE IN THE UNITED STATES.

Iron Age, of April 27, says: "There is a marked change in the condition of the market at this time as compared with a month or two ago. At that time merchants were in daily receipt of so many advices of advances that it was a difficult matter in many cases to keep track of them, but now there is comparatively little of this excited upward movement and values remain substantially unchanged. A few advances are coming along, necessitated in most cases by the increased cost of raw material, and in some instances also by the payment of higher wages. The influence also of combinations and associations of one kind or another is not to be overlooked, but in many lines negotiations having these ends in view are still in progress, and have not culminated in measures which have as yet advanced prices. While it is undoubtedly true that the tone of the market is strong, with possibly a tendency towards still higher values, it is found feasible in some lines to obtain concessions from what are regarded as regular prices. This is owing, in part, to the desire of manufacturers to keep their order books well filled, and also to the conservative disposition on the part of some of them to refrain from making prices which may not be long prevalent, choosing rather to forego immediate profit rather than encounter a break in prices."

IRON TRADE IN THE UNITED STATES.

Iron Trade Review, of April 27, says: "No noteworthy change in markets has taken place in the past week. The volume of new business is quite below that of shipments from mills, but, when it is known that in some lines orders on hand will occupy capacity almost to the end of the year, it can be appreciated that manufacturers of finished material are very glad of the market's waiting mood. Plate mills at

Chicago and Pittsburg will be able to care for very little new business before December. Buyers in all lines find less ground for expecting lower prices as the season advances. Bridge work is very active; in building, there are some signs that present prices will hold back some operations; yet, structural material, if other prices hold, is still short of its relative position. A feature that will be more and more noticeable is the lessening prominence of billets as a market factor, under the amalgamations of consuming interests. Steel is stronger in Pittsburg, and \$26.50 has been reached this week on prompt lots. The pig iron market shows great strength, and, after several weeks of quiet, there has been a renewal of buying by consumers, who found more evidence of a possible scarcity in May and June than they were willing to concede a few weeks ago. Taking the market in its length and breadth, there is nothing at this juncture to encourage expectations of material change in prices for some months to come."

TRADE CHAT.

James Duffield & Son, tinsmiths, Wingham, Ont., have dissolved. James Duffield continues.

The Niagara Falls Metallic Furniture Co., Niagara Falls, Ont., have commenced the manufacture of metallic bedsteads.

Shurly & Dietrich are erecting a large factory in Galt, Ont., to which they intend to move the St. Catharines, Ont., bedstead works.

The Burrell Johnston Iron Co., Yarmouth, N.S., has dismissed its staff numbering over 60 hands, and has ceased doing business. The reason assigned is that the concern is not paying a dividend. It is rumored that the works may be removed to Halifax.

The Canada Copper Co. is preparing for the erection of a large smelter and refinery in the township of Denison, about 20 miles from Sudbury, Ont. It is said all the Sudbury nickel ore will be refined at these works. The site of the factory will be called Nickel City.

The dissolution of Kingan & Allen, hardware dealers, Peterboro', Ont., has been followed by the organization of a company which will be known as The Kingan Hardware Co. The principal partners are: R. G. Kingan, of the old firm, and W. G. Ferguson, formerly of Peter Connal & Co., grocers, Peterboro'.

HARDWARE FIRM INCORPORATED.

Alphonse Pallascio, merchant; Joseph Edmond Quintal, merchant; Francis Maurice Lavoie, bookkeeper; Henri Robin, clerk, and Joseph Edouard A. Loyseau, clerk, all of Montreal, have been incorporated under the style of The Pallascio Hardware Co., Limited, for the purpose of carrying on a general hardware and paint business at Montreal. The capital of the firm is \$20,000.

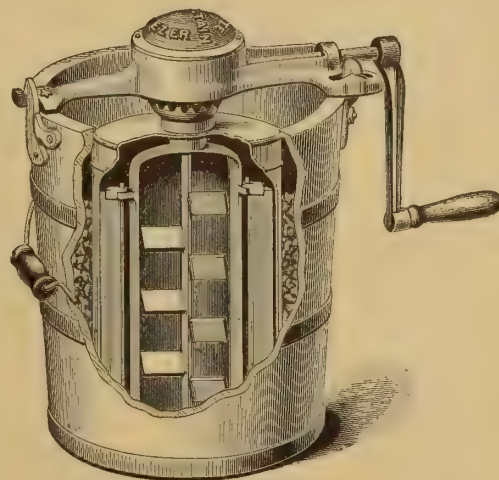
EVERY GOOD THING

PERTAINING TO

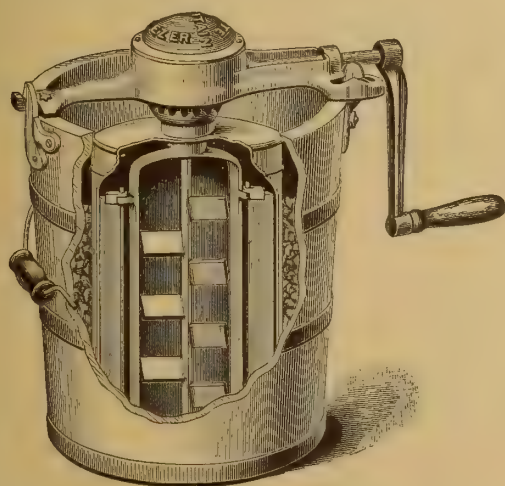
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N. H., U. S. A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL April 28, 1899.

HARDWARE.

THE movement in general hardware has been of a moderate character, but with better country roads, and the opening of inland water communication, it is expected to expand next week. Several notable changes in values have been compulsory during the week, as a result of changing conditions in regard to raw material and general firmness. A new list on brass and copper wire has been issued, while base price on smooth wire has been advanced. Fence staples are higher both for galvanized and bright. Manila and sisal rope are dearer and point still higher. There has been another all-round advance in horse-shoes, and iron pipe values have been readjusted on a generally higher level.

BARBED WIRE—There has been no further change in barbed wire, and business rules quiet. We quote \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—There has been another advance in smooth wire, the base

price for Nos. 6 to 9, now being 30c. higher at \$2.80 f.o.b. Montreal and Hamilton.

FINE STEEL WIRE—Business dull and discounts unchanged at 25 per cent. off list.

BRASS AND COPPER WIRE—A new list has been issued on brass and copper wire, and is given elsewhere. Discounts are 50 and 2½ off on brass, and 45 and 10 per cent. off on copper.

FENCE STAPLES—There has been another sharp rise in staples, bright being quoted 15c. higher, at \$2.90, and galvanized 35c. up, at \$3.50.

OTHER STAPLES—Continue steady: Cooper and poultry netting, 15 per cent.; electrical, broom, bed, etc., 10 per cent.

WIRE NAILS—There is only a moderate trade noted in wire nails, and prices are unchanged at \$2.50 to \$2.60 as to quantity.

CUT NAILS—Firm, with a fair inquiry from ship chandlers and naval store keepers. The base is \$2.05 f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.B., with the usual rebate of 5c. allowed to regular retail dealers.

PRESSED SPIKES—Fairly active and steady; discount, 40 per cent.

GALVANIZED ROOFING NAILS—Demand fair at 8c. per lb. with 25 per cent. discount.

HORSESHOES—The steady advance on raw material has led to a further rise in horseshoes, which are 20c. higher this week, as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

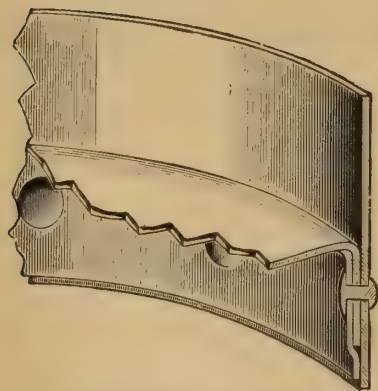
HORSE NAILS—Business continues quiet and without new feature. Discounts are: Standard, 50, and Acadian 50 and 20 per cent.

TACKS—Steady. We quote as follows: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with

MILK CAN TRIMMINGS

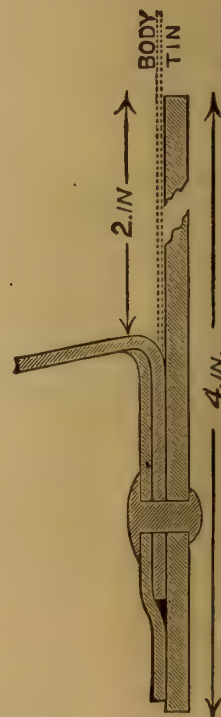
BROAD HOOP PATTERN

The Strongest Bottom Made.



Cut of section of bottom.

Inner band ¼-inch above the outside bands.
 Cannot tear away.
 Nothing to wear away.
 Nothing to break.
 No place for dirt to lodge.
 The body tin can be inserted 3 16-inch into cavity between bottom and outside band.
 Solder cannot crack.
 Bottom cannot spring.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



Apollo Best Bloom is the galvanized iron that sets the standard. The others don't even follow it.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL Pig IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a la Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

45 per cent. off; tinned do., \$6 per gross
with 45 per cent. off.

DOUBLE-POINTED TACKS Unchanged.
In dozens, 85 and 25 per cent.; and in bulk,
10 per cent. off list.

SCREWS—There is an active inquiry for
screws. We quote: Flat head, bright, 82½
and 5 discount; round head do., 75 and
5; flat head, brass, 75 and 5; round head
do., 67½ and 5.

BOLTS—There is a good trade doing.
Discounts are: Carriage bolts, 5-16 and
smaller, 60 per cent., and ¾ and larger,
55 per cent.; machine bolts, 60 per cent.;
coach screws, 75 per cent., and sleighshoe
bolts, 75 per cent.

RIVETS—A fair movement is noted in
these. Discount on black and tinned rivets
55 per cent.; ditto burrs 50 per cent., while
copper rivets and burrs are 35 per cent.

CORDAGE—Demand is better this week
for rope, and there has been an advance of
½c. both in sisal and manila. We quote
the former, 7-16 and up, 10¾c., and the
latter 10¾c., with lath yarn 9¾c.

SHOT—Unchanged, 6c. for ordinary, and
6½c. for chilled.

CEMENT—The movement in this has been
light this week, but with the opening of in-
land water communication a better move-
ment is expected. We quote: Belgian,
\$1.90 to \$2.10; English, \$2.30 to \$2.40;
and German, \$2.45 to \$2.65 per cask ex
wharf.

FIREBRICKS—Without new feature this
week. We quote: \$19 to \$26 ex store, and
\$17 to \$23 ex wharf to arrive.

METALS.

The firmness in heavy iron and metals
continues. In Britain, values, generally,
have shown a rising tendency during the
week in iron, while they are firm in the
United States. Copper, tin and spelter
shows distinct advances both in the United
States and Great Britain on last week's
level.

PIG IRON—The firm feeling is fully
retained in pig, and some good-sized lots
of Hamilton iron have been put through
for forward delivery at quotations. We
quote Scotch at \$21 for standard A 1 brands,
and No. 1 Hamilton, \$17 to \$18.

BAR IRON—A fair inquiry is noted for
forward shipment, and values are firm at
\$1.70 in car lots and \$1.75 in smaller
quantities f.o.b. Montreal.

HOOP IRON—Without change at \$2.65
to \$2.70.

STEEL—The advancing tendency in steel
continues, and prices are 5 to 10c. higher
all round this week as follows: sleighshoe,
\$2.45; tire, \$2.45; spring and machinery,
\$2.60, and toe calk, \$2.90.

GALVANIZED IRON—Demand is active,
both from stock and for importation, and

Tinplates

"LYDBROOK" Best Coke.

"The Cannery's Favorite."

"ALLWAYS"

The Best Charcoal.

"Standard of the world."

Import only.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a sav-
ing of a gross of screws on every six
dozen Pulleys.

THEY can be applied quicker than any other
Pulley.

THEY are cheap, strong and durable.

NO NAILS
JUST BORE

NO SCREWS
FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.

96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

1C and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

prices are firmly held. We quote: \$4.75 to \$5 for No. 28 "Queen's Head," with "Comet" \$4.35 to \$4.55.

INGOT COPPER—Values outside have shown material advances during the week, prices in London being £1 8s. 9d. up on a week ago, while New York has advanced $\frac{1}{4}$ c. per lb. On spot, accordingly, prices are now firmly held at 19½ to 20c.

INGOT TIN—Outside markets have recorded material gains in this metal, spot tin being £1 up on the week in London, and in New York values are 25c. higher all round. Here, prices are firm at 29c.

PIG LEAD—There has been little variation in this metal during the week, and the price is unchanged at 4¼ c.

LEAD PIPE—Quiet and steady, at 7c. for ordinary, and 7½ c. for composition waste, with 17½ per cent. discount to the trade.

IRON PIPE—There has been an all round readjustment of prices on black and galvanized iron pipe, the advance in the latter being most pronounced. We quote: Black pipe, $\frac{1}{8}$ and $\frac{3}{8}$ -inch, \$2.98; $\frac{1}{2}$ -inch, \$2.75; $\frac{3}{4}$ -inch, \$3.30; 1-inch, \$4.50; 1¼-inch, \$6; 1½-inch \$7.50, and 2-inch, \$9.50. Galvanized pipe, $\frac{1}{8}$ and $\frac{3}{8}$ -inch, \$5.64; $\frac{1}{2}$ -inch, \$6.64; $\frac{3}{4}$ -inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—In fair demand for forward importation. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—A fair inquiry is noted. We quote as follows: Coke, I. C., \$3.25; charcoal, I. C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.50.

TERNE PLATE—Quiet and firm at \$6.25.

COIL CHAIN—Firmly held. We quote: No. 6, 9¼ c.; No. 5, 8¼ c.; No. 4, 7¼ c., and No. 3, 6¼ c. per lb.; $\frac{1}{4}$ -inch, \$5.50; 5-16, \$4.25; $\frac{3}{8}$, \$3.85; 7-16, \$3.70; $\frac{1}{2}$, \$3.55; 9-16, \$3.40; $\frac{5}{8}$, \$3.25; $\frac{3}{4}$, \$3.15, and $\frac{7}{8}$, \$3.00 per 100 lb.

SHEET ZINC—Steady and unchanged at 8 to 8¼ c.

ANTIMONY—Quiet at 10 to 11c.

SPELTER—Firm, at \$6.75 for V.M., and \$6.50 for S.S.

GLASS.

Cable announces a further advance in prices, and for this reason the usual decline that follows first arrivals ex wharf is not expected this spring. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

There has been a decline of 2c. in turpen-

tine. White lead is very firmly held in sympathy with strong advices from abroad. Mixed paints are stiff, and there is some talk of advancing prices, owing to a good inquiry and increased cost of raw material.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½ c.; in oil, pure, 8c.; No. 1, 6½ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 66c.; two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½ c.

SEAL OIL—A drug at 36 to 38c.

COD OIL—Excited at 37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½ c. for colored, and 6 to 7½ c. for white; oakum, 5½ to 6½ c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½ c.; 1-lb. tins, 15½ c.

MONTREAL NOTES.

Turpentine is 2c. lower this week.

Smooth wire is 30c. up on last week's base figure.

Cordage is higher both for sisal and Manila this week.

Fence staples are from 15 to 20c. higher than they were a week ago.

Copper is firmer both in London and New York than it was last week.

A general rise in the price of iron pipe was decided on last Saturday.

There has been another rise of 15 to 20c. all round in horseshoes this week.

Spot tin in London advanced £1 the ton and in New York, 25c. per 100 lb.

British iron prices have established a distinct upward tendency this week.

A new list has been issued on brass and copper wire and is given specially elsewhere.

T. L. Paton, the Canadian agent for The London Emery Works Co., has received a consignment of "Atlas" brand of emery, and is now prepared to fill all orders.

OAKEY'S 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

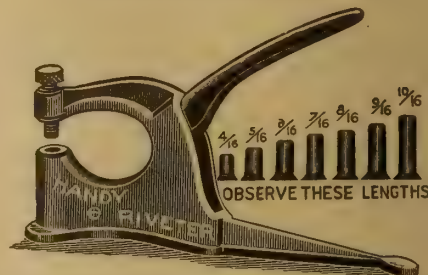
JOHN FORMAN, 644 Craig Street MONTREAL

SITUATION WANTED.

SITUATION WANTED AS HARDWARE clerk; 13 years' experience; good stockkeeper, capable of taking charge, store and books. Box C, HARDWARE OFFICE. (18)

IMPROVED HANDY RIVETER

For mending Harness, Belting, etc.



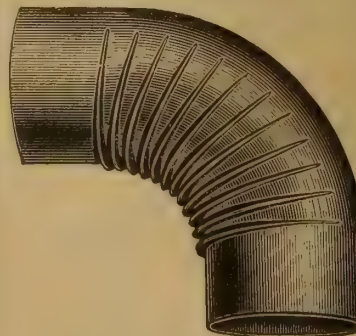
This is the Only Riveting Machine which will do sure work, throwing the rivet to centre of anvil every time and clinching a perfect head. The only machine operating a rivet longer than $\frac{1}{2}$ inch—this being absolutely necessary for mending traces and heavier parts of harness. Most simply constructed and easiest operating Riveter on the market. Your stock is not complete without a supply of these very handy machines, which are rapidly becoming universal with the farmer, stockman, horseman, etc. A box of 50 No. 1 Tubular Rivets in assorted lengths, from $\frac{1}{4}$ inch to $\frac{3}{4}$ inch, with each Handy Riveter. When you want the best Riveter at the best price, write us regarding the Handy. We guarantee every machine.

ENTERPRISE MANFG. CO., Toronto, Ont.

E. T. Wright & Co.

Manufacturers and sole owners

SCHIEPE'S PATENT STOVE PIPE AND COOPER'S ONE-PIECE ELBOW.



Manufacturers of Bird Cages, Lanterns, and full line of Tinware.

HAMILTON, ONT.

Send for New Catalogue.

ONTARIO MARKETS.

TORONTO, April 28, 1899.

HARDWARE.

WHOLESAL hardware dealers in Toronto are up to their eyes in business, what with new orders and getting those already received ready for shipment at the opening of navigation. Barbed wire has taken another advance, now being quoted 10c. higher than a week ago. Revolving barrel churns show an advance of 15c. each. There has been a revision of the price of hammers, quotations now being higher. Soldering irons have been advanced 25 per cent. in price. A fixed price of \$7 per dozen has been fixed on cold blast lanterns. Cut and wire nails are firm and in good demand. The base price on smooth steel wire has been advanced to \$2.80 per 100 lb. f.o.b. factory points. Ice cream freezers, refrigerators, spades and shovels, harvest tools, poultry netting, churns, wringers, and, in fact, all seasonable lines are in good demand.

BARBED WIRE—A further advance is to be noted this week in the price of this article, the quotation now being \$3 f.o.b. Toronto, with 2 per cent. off 10 days. The demand for barbed wire is fairly good, but the home manufacturers are at some disadvantage on account of the difficulty of getting raw material from the United States. Plain twist is quoted at \$3; staples are unchanged at \$3 for galvanized and \$2.75 for bright.

SMOOTH STEEL WIRE—There has been another change in the price of this line, the base figure now being \$2.80 f.o.b. factory point, instead of \$2.50, as before. This advance is in sympathy with the higher figures in the United States.

FINE STEEL WIRE—There is a fair business being done at the discount of 25 per cent. f.o.b. factory point. We quote in 100 lb. lots as follows: No. 17, \$5; No. 18, \$5.50; No. 19, \$6; No. 20, \$6.65; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 28, \$11; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17. Extras net—tinned wire, Nos. 17-25, \$2; Nos. 26-31, \$4; Nos. 32-34, \$6. Coppered, 75c.; oiling, 10c.; in 25-lb. bundles, 15c.; in 5 and 10-lb. bundles, 25c.; in 1-lb. hanks, 50c.; in ½-lb. hanks, 75c.; in ¼-lb. hanks, \$1; packed in casks or cases, 15c.; bagging or papering, 10c.

WIRE NAILS—There has been no further change in the price, although figures were, last week advanced in the United States. The base quotation is still \$2.55 Toronto and west. The demand is good.

CUT NAILS—Are in fairly good demand at the base price of \$2.05 f.o.b. Toronto,

Good Reasons Why

It will pay you to use our

“Owl” Brand

CORRUGATED IRON

For Roofing, Siding, Ceilings, Partitions, etc.

It is made from the best American or English sheets.

It is entirely free from scale, pinholes or other defects.

The corrugations are pressed one at a time—not rolled—and as each sheet is accurately squared before corrugating, they fit perfectly without cutting or waste.

We can supply any gauge or size, up to 120 x 33 in.—Galvanized or Painted.

Send us your specifications, mentioning quality and gauge required.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

Hamilton and London, with the usual 5c. per keg rebate.

HORSE NAILS—The market is still without particular interest, and prices are unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—The demand keeps good, and there has been a further advance in prices. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 1 and larger, light, medium and heavy iron shoes, \$2.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.65 per keg; iron snow shoes, \$3.90; light steel shoes, \$3.90; featherweight steel shoes, all sizes, \$4.90; toe weight, steel, are quoted at \$6.10 f.o.b. Toronto, Hamilton, London and Guelph.

SCREWS—Business is keeping up, while the outturn is still large. There is no change in prices. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—There is a good business still being done in all kinds of bolts, and prices rule steady and unchanged. We quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per

cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—The demand is fair and prices as before. We quote as follows: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The tone of the market is stronger and our quotations on sisal are ½c. higher than last week. We quote as follows: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. New Zealand rope has been advanced to 9½c. per lb. Other quotations are: Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—There has been an advance of 15c. in revolving barrel churns, and we now quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto. The demand for churns is active.

WRINGERS—Business in this line is seasonably active and prices are unchanged. We quote: “Leader,” \$60 per doz.; “Royal Canadian,” \$58; “Royal American,” \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Dis-

count, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—Business in this line is reported to be good, and prices unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

WARE—The demand for enameled ware during the past week has been active, having improved since our last report. There is also a good deal of tinware going out.

GAS AND OIL STOVES—Orders are coming in freely for oil stoves, but the demand for gas stoves is not very active at the moment.

GREEN WIRE CLOTH—There is quite a little of this going out and prices are firm, at \$1.20 per 100 square feet.

POULTRY NETTING—This is still going out well. The discount is unchanged at 50 and 5 per cent.

EAVETROUGHS—There is still a good trade to be noted in eavetroughs at former quotations. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—There is an active demand for spades and shovels, and prices are firm. Discount, 40 and 5 per cent.

HARVEST TOOLS—The demand for these is active and quite a scarcity exists. The manufacturers appear to have more business than they can take care of. Discount, 60, 10 and 5.

GALVANIZED BUCKETS—There is a fair business being done at the recent advance in price. We quote: Straight pattern, No. 12, \$2; No. 14, \$2.25; No. 16, \$2.55. Flaring pattern, No. 11, \$2.25; No. 12, \$2.50; No. 13, \$2.85; No. 14, \$3.30.

LANTERNS—The manufacturers have agreed upon a fixed price for the sale of cold blast lanterns, the figure per dozen being \$7.

LEATHER BELTING—Trade continues good, but no new features have developed during the week. We quote: Extra, 50 per cent.; Standard, 50 and 10 to 50 and 5 per cent.; lace, 70 to 75c. per lb.

SOLDERING IRONS—The price of soldering irons has been advanced about 25 per cent., and quotations are now as follows: 2 lb., 30c. per lb.; 3 lb., 33c. per lb.

CEMENT—Business is brisk. Though no imported cement has arrived on the market lately, stocks are large. Prices are unchanged. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The outside markets have ruled steady to firm during the past week, but there have

not been many changes in quotations. The price of brass has been advanced, and spelter and zinc sheet are quoted fractionally higher. While copper and tin are higher, outside local quotations are unchanged. There has been a further advance during the past week in the price of iron pipe.

PIG IRON—There is not a great deal of business being done, but prices are being firmly maintained. No. 2 foundry, American make, is nominally quoted at \$16.50 in Toronto, in bond, and Southern soft, at \$17.65 in bond.

BAR IRON—There has been a further advance in prices. The base price at the factory in carload lots is now \$1.65, and for small lots \$1.75.

BLACK SHEETS—The demand for these continues good with 28 gauge still quoted at \$2.85 per 100 lb.

GALVANIZED IRON—Trade is good in this line, the season having opened up for outdoor work. The demand is chiefly for English make. In case lots, we quote the different brands of 28 gauge as follows: "Queen's Head," \$4.75; American, \$4.50, and "Gordon Crown," \$4.50.

COPPER—The outside markets are higher than they were a week ago, but locally the market is without change. We still quote ingot at 19 to 19½c.; sheet copper at 23 to 23½c.; braizers' at 23 to 25c., according to weight.

BRASS—There has been an advance in the price during the past week, and we now quote as follows: Roll and sheet, 14 to 30 gauge, 5 to 7½ per cent.; sheets, hard rolled, 2 x 4, 24 to 25c. per lb.; tubing, 25c. base.

PIG TIN—Trade is fair. Outside markets have shown some irregularity during the past week, but figures are higher than they were in both London and New York at time of previous report. Locally, quotations are unchanged at 28 to 28½c. for Straits, and 29c. for Lamb and Flag.

TIN PLATES—A number of small orders have been received during the past week, and large orders that were taken some time ago are now being sent forward for shipment to the upper lakes with the opening of navigation. Our quotations are unchanged.

TIN SHEETS—The demand for these keeps good; 24-gauge is quoted as before, at 6 to 6¾c.; 26-gauge, at 6¾ to 7c.; 28 gauge, at 7½ to 7¾c.

CANADA PLATES—A few orders are coming in, and there have been a few import orders booked during the past week. It was generally thought that all the import orders had been placed. We quote: All dull, \$2.50 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—The movement in this line is fairly good, and prices are steady and

unchanged. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—There is a good demand for lead at 4¼ to 4½c. per lb.

IRON PIPE—There has been a material advance in the price of iron pipe during the past week, and we now quote as follows: ¾ to ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ¼, ¾ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

RANGE BOILERS—There is a good demand for these, and, as the price at which jobbers are now quoting is below what they could lay fresh shipments down at, it is quite possible that an advance will take place before long. We quote: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

COIL CHAIN—There are no new features to note, the market still being firm and business quiet. We quote as follows: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ⅝ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—The demand is moderate, and prices are higher at 8¼ to 8½c. for casks and smaller lots, respectively.

SPELTER—This is also higher in price, now being quoted at 7½ to 7¾c. per lb. Business is quiet.

SOLDER—An improved trade is being done in this line and prices are unchanged at quotations. We quote: Half and half 17¾ to 18¼c.; refined, 17¼ to 17¾c.; wiping, 16 to 16½c. per lb.

ANTIMONY—Trade is again quiet, but prices are unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

The demand is exceptionally brisk. One house states that the past week has been the busiest of the season with them. The demand is general, being largely of a sorting nature. Linseed oil is steady at unchanged figures. The turpentine market is firm. It is feared the cold weather in the South has affected trees to such an extent that the incoming crop may be below the average. A short crop coming on a comparatively bare market would likely keep up the present high prices. The feeling has resulted in an advance of 2c. in the South during the past week. Prices here have also been raised 2c. There are rumors of an advance in white lead in the near future, but no change has yet been made. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25;

No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The demand is moderate. Stocks are likely to be sufficient for requirements till import orders arrive. We quote as follows: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

No. 1 wrought scrap has advanced 2½c. Otherwise there is no change, but a decidedly firm feeling is manifested in all lines. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 45c. 10c. lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

SEEDS.

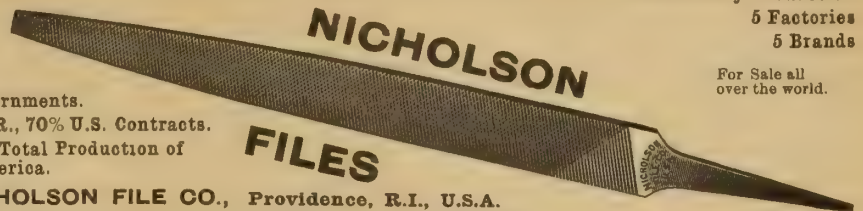
The indications are that the season is

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production

5 Factories

5 Brands

For Sale all over the world.

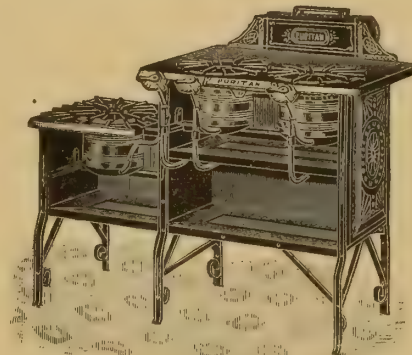
BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETTE**," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

Puritan Wickless Blue Flame.



**This is the only Wickless
Blue Flame Oil Stove that
has given satisfaction. . .**

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East TORONTO.

pretty well over. There is little red clover offering. Dealers are paying \$3 to \$3.30 on board at outside points. Alsike is quiet at unchanged prices, \$2.50 to \$4 outside. Some timothy is offering, but, as the market is almost over and a great deal of what is coming in is mixed, buyers are very careful, and it is likely much of this seed will be carried over by holders till the fall.

PETROLEUM.

Prices are unchanged. A moderate demand is noted. We quote in barrels at Toronto: Canadian, 13½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

COAL.

The demand is dull. Prices are unchanged. We quote anthracite at Buffalo and bridges as follows: Nut, \$4.75 per gross ton, or \$4.24 per net ton; egg and stove, \$4.50 per gross ton, or \$4.01 per net ton; grate, \$4.25 per gross ton or \$3.79 per net ton.

MARKET NOTES.

Brass is dearer.

Turpentine is 2c. per gallon higher at 66c. Revolving barrel churns are 15c. each dearer.

Zinc and Spelter are both ¼c. per lb. dearer.

Barbed wire has been advanced another 10c. per 100 lb.

The price of cold blast lanterns has been fixed at \$7 per dozen.

The price of soldering irons has been advanced 25 per cent.

The price on the different kinds of hammers has been advanced.

The Enterprise Manufacturing Co., of Toronto, are placing on the market an improvement in the line of riveting machines. The principal features claimed are construction for use of longer rivets, ease of operation and absolutely true working parts.

PERSONAL MENTION.

Mr. McFeely, of McLennan, McFeely & Co., Limited, hardware, stoves, etc., Vancouver, was in Toronto this week.

MANITOBA MARKETS.

WINNIPEG, April 25, 1899.

THERE is a great outcry just now that building material, especially brick and stone, are going to be short, and already one building is reported postponed until next year because no material could be got in time. Just how far these predictions are correct remains to be seen.

Bluestone is remarkably scarce and one small stock of two tons received during the past week sold readily at 10c. per lb. This is rather a high price to pay when using it for curing wheat.

Prices have varied very little since last week. Barbed wire is now quoted at \$3.50 and bar iron at \$2.30, otherwise last week's list remains without change:

Barbed wire, 100 lb.	\$3 50
Plain twist	3 50
Staples	3 75
Oiled annealed wire.	10 2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1.	4 25
No. 2 and larger	4 00
Snow shoes, No. 0 to No. 1.	4 55
No. 2 and larger	4 25
Steel, No. 0 to No. 1	4 55
No. 2 and larger	4 30
Extra light	5 50
Bar and band iron, \$2.30 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb.	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 00
14 to 26 gauge.	3 25
28 gauge.	3 60
Galvanized American, 16 gauge.	4 00
18 to 22 gauge	4 25
24 gauge.	4 50
26 gauge.	4 75
28 gauge.	5 00
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	13 00
Ingot tin.	29
Canada plate, 18 x 21 and 18 x 24	3 10
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots.	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black, 1/4 inch.	3 00
" 3/8 inch.	3 25
" 1/2 inch.	4 00
" 3/4 inch.	4 50
" 1 inch.	6 25
" 1 1/4 inch.	8 50
" 1 1/2 inch.	10 25
" 2 inch.	14 00
" Over 2 inch.	70 p.c.
Rope, sisal, 7-16 and larger.	10 05
" 3/8	11 00
" 1/2 and 5-16	11 50
Manila, 7-16 and larger	11 50
" 3/8	12 00
" 1/2 and 5-16	12 50

Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, 10 and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass	70 and 10 p.c.
Round "	60 and 5 p.c.
Bolts, carriage	55 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels	
Harvest tools	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	57
" boiled "	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge	15 00
chilled, 12 gauge	16 50
soft, 10 gauge	20 00
chilled, 10 gauge	21 00
American, M	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled	7 00
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	70 and 30 p.c.
Granite ware, according to quality	50 to 60 p.c.

CATALOGUES, BOOKLETS, ETC.

"OXFORD" GAS STOVES, RANGES, ETC.

The Gurney Foundry Co., Limited, has issued a small booklet on the qualities, peculiarities, and the best way to use the "Oxford" gas heating and cooking apparatus. It includes illustrated descriptions of 45 lines of these goods, some good information on cooking by gas, and seven pages of choice recipes. This would be a useful book for hardware dealers in towns which have gas systems.

A RETAIL SUPPLY HOUSE BOOKLET.

The Mechanics Supply Co., Quebec, have prepared for distribution among their patrons a small booklet on "How Best to Beautify and Make our Homes Comfortable." It is designed to teach the advisability of making the home most healthy and comfortable by using the best plumbing and heating appliances, and beautiful by using the most artistic styles of ornamentation; also to show that this firm carry the best goods necessary to this end. Editions of this dainty booklet have been issued in both French and English.

THE HUM AT ATLIN.

A special correspondent of The Province, writing from Atlin, under date of March 29, has the following to say of the district: Things are beginning to hum here and there is no doubt but that there is gold in almost every creek. I am of opinion that Atlin will, this fall, surprise the world by its output of gold. We are all feeling hopeful,

but nothing can be said definitely of our prospects, for gold is where you find it, and not where you want it. I would advise all coming in to pass the Customs offices first, otherwise they will be compelled to pay duty at Log Cabin, on the way in. If Vancouver merchants want their share of the trade they had better open branches immediately, for Skagway is now getting the big end of it, and Seattle is making a big bid for a share. It is, however, a mistake for anyone to buy supplies at Skagway, for they can be purchased here for less than the cost of hauling them in.

SAMPLE-ROOM ACCOMMODATION WANTED.

Commercial travelers are frequently heard to complain about the lack of sample-room accommodation at many points throughout the country. Travelers sometimes have to wait two or three days before they can secure a sample-room, in cases where several travelers arrive at one time and have to wait their turn. At several of the larger towns it would be a profitable investment for some enterprising citizen to have a few good sample-rooms fitted up. The travelers would be glad to pay for a room in preference to being obliged to wait a length of time when the rooms in connection with the hotels are engaged. At points like Brandon, Portage la Prairie, Calgary, Prince Albert, etc., it would probably be found a profitable investment for some resident to fit up a few good rooms for the commercial men.—*Winnipeg Commercial.*



Is a better and truer machine than any now on the market, with the exception of our IMPROVED HANDY, for which see other advertisement. We are desirous of losing out our limited stock of Handies, and they are yours at less than manufacturer's cost. A big chance for a drive. Write for special price.

ENTERPRISE MANFG. CO., Toronto, Ont.

Pullman Sash Balance Co.
Makers of the
"Pullman"
Hardware
Specialties
Main Office and Works,
Rochester, N.Y., U.S.A.

FOR
Bicycle Plates
Time Checks
Steel Stamps
Rubber Stamps
Everything in the stamp line
SEND TO THE
Hamilton Stamp & Stencil
DATER. 250. Works, Hamilton, Ont.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

FRANK Parker, general merchant, Adelaide, Ont., has assigned to D. M. Cameron, London.

Max Winter, general merchant, Grand Mere, Que., has assigned.

J. N. Laird, general merchant, Foxboro, Ont., has assigned to J. E. Hay.

Eusebe Pelletier, general merchant, Etchemin, Que., has compromised.

F. A. Blouin, general merchant, St. Marie (Beauce), Que., has assigned.

P. Sirois, general merchant, Riviere St. John, Que., has effected a compromise.

E. Brammer, general merchant, Sharon, Ont., has assigned to John Ferguson, Toronto.

D. J. McDonald, general merchant, Bridgeport, N.S., is offering 50c. cash on the dollar.

Henri Roberge, general merchant, Ste. Varsite Station, Que., has compromised at 40c. in cash.

O. Ricard, general merchant, St. Valere du Bulstrode, Que., has compromised at 60c. on the dollar.

P. R. Robillard has been appointed liquidator of the Drummondville Foundry Co., Drummondville, Que.

Geo. W. Smith, electrician, Pointe Gatieneau, Que., has assigned, and a meeting of his creditors will be held on May 12.

PARTNERSHIPS FORMED AND DISSOLVED.

Picotte & Fils, contractors, Montreal, have dissolved.

Provost & Baigne, hardware dealers, Montreal, have registered partnership.

McDowell & Pattison, commission dealers in paints, dyes, etc., Montreal, have dissolved.

Adelard Corbeil and Joseph Vezina have registered partnership under the style of Vezina & Corbeil, contractors, Montreal.

Thompson & Scott, general merchants, etc., Shubenacadie, N.S., have admitted J. A. Ervin, under the style of Thompson, Scott & Co.

John Campbell and Agnes M. Dunton have registered partnership under the style of Campbell & Co., general merchants, Richmond, Que.

J. P. Beauchamp, general merchant, Qu'Appelle Station, N.W.T., has admitted J. A. Longpre under the style of J. P. Beauchamp & Co.

The Gananoque Harness Works, Gananoque, Ont., have dissolved, W. R. Acton continuing under the old style, and W. J. Gibson in his own name.

Gravel, Duquette & Duhamel, wholesale saddlery hardware dealers, etc., Montreal, have dissolved, N. F. Duquette retiring. The business will be continued by Pierre

Gravel and Joseph S. Duhamel under the style of Gravel & Duhamel.

McDonald & McGillivray have been succeeded by Daniel H. McGillivray and Edward McIntosh under the style of McGillivray and McIntosh, general merchants, Antigonish, N.S.

R. & W. Kerr, hardware dealers, Montreal, have dissolved, and new partnership has been registered, composed of Robert Kerr, Ernest F. Kerr and John L. Kerr, under the old style.

SALES MADE AND PENDING.

The assets of A. Patenaude & Co., coal and wood dealers, Montreal, are to be sold.

The stock of A. Spenard, general merchant, St. Jean de Chaillons, Que., has been sold at 57c. on the dollar.

The general store stock of the late W. W. Johnson, general merchant and hotelkeeper, Walsh, Ont., has been sold to Archibald McColl.

CHANGES.

J. F. McLaren, general merchant, Lower Argyle, N.S., has sold out to P. L. Hatfield.

W. G. Blythe & Co., general merchants, Melita, Man., have sold out to T. A. Blackwell.

Turner & Co., general merchants, Bracebridge, Ont., have been succeeded by S. Brown.

The Expanded Metal Co. of Canada, Toronto, is applying for charter.

Arthur Dalbec has commenced business as bicycle dealer in St. Hyacinthe, Que.

The Kingan Hardware Co., Limited, Peterboro', Ont., has been incorporated.

Grant Bros., harness dealers, Ruthven, Ont., have been succeeded by Arthur Grant.

J. D. Ramsay & Co., general merchants, Plumas, Man., have sold out to W. Ramsay.

Edouard Dubois has registered as proprietor of Dubois Freres, contractors, painters, etc., Montreal.

John Gay, general merchant, Central Ontario Junction, Ont., has been succeeded by John A. Bell.

C. H. Holmes, general merchant, Atwood and Newry, Ont., has sold out his Newry branch to T. Tennant.

W. J. Craig, hardware dealer, etc., Winnipeg, has sold out his hardware business to G. M. Gordon and his second-hand goods business to A. Boyd.

DEATHS.

Wm. 'Gee, grocer, Uttoxeter, Ont., is dead.

James Cowan, of James Cowan & Co., wholesale carriage and builders' hardware dealers, London, Ont., is dead.



Morgan & Wright Tires are good tires.

We sell them. We sell Morgan & Wright sundries.

There is money in them. There is local reputation in them.

Buy them from us when you are getting Goodrich - Reflex Single Tubes and Goodrich

Sundries, or Goodrich-made G. & J. Detachable.

Get our Booklets.

They are only sent to dealers.

They keep dealers up-to-date.

They are full of business.

Send us your name on a post card—but a letter will be more acceptable.



American Tire Co., Limited,
166 King St. W., Toronto.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

Manufactured only by ...

THE STANDARD CHEMICAL CO., Limited

Factories { Fenelon Falls,
Deseronto.

Gooderham Building, **TORONTO**

SPRING IN BRITISH COLUMBIA.

THE PROVINCE, Vancouver, in its issue of April 6, contains the following interesting reference to the advent of spring in British Columbia :

It is pleasant to turn from the terrors of political strife and the consideration of saw-mill sites and railway charters occasionally, to pay some attention to the mystery of unfolding spring. While winter has not yet relinquished its grip on the world in the east, here in British Columbia we are well on towards summer. The trees are in leaf, the flowers are in bloom, the birds are mating and the big snow fields are gradually disappearing from the mountains. The advance is so rapid that one can almost see the buds bursting and the leaves uncurling. Certainly, each day's growth and development can be easily noticed. The green tints become more pronounced with each passing hour, and, although things are not as far advanced as they were a year ago, it is practically only a matter of days before the virgin spring will turn to glorious summer. In British Columbia these things happen at a bound. The seasons have little of dawn and twilight. The winter of yesterday is spring to-day. To-morrow summer comes, and, with the "slow, reluctant feet," of which the poet told us, but with the calm assurance of a young woman who knows her way and is not afraid to take it.

To those who are accustomed to the rigors of an eastern winter the mild climate of British Columbia is a revelation. Notwithstanding the fact that the "winter" which has just left us was an unusually severe one there were probably not more than a dozen occasions when heavy overcoats were required. On the overwhelming majority of occasions waterproofs and light spring overcoats afforded sufficient increased protection. For a month or more not even these have been necessary. Pedestrians have gone around without extra clothing of any kind and have suffered no inconvenience. Those who have lived in the east, sneezing and freezing from October to May, would think this pleasure enough in itself to make life worth living and that everybody should be happy and contented, but we have our little grumbles and troubles here the same as elsewhere. That is human nature. No matter what a man has, there is always something lacking, and perhaps he never finds it this side of the peaceful grave.

PUTTING IN NEW MACHINERY.

The James Robertson Co., Limited, Toronto, report an exceptional demand for all plumbing and brass goods. Orders for brass goods have been so large that it has been necessary to instal a large lot of new machinery.

The number of cattle being shipped from Calgary this spring exceeds that of any former year. The winter has been a very severe one on stock. There has not been a large percentage of loss, but animals have been left in very poor condition.

**RAMSAY'S
EXTERIOR
LEAD**

is a lead cheaper than pure, guaranteed better than pure, and numerous letters from decorators and others to say so. It has been tested. We furnish booklets to aid its sale. Have you got it? Drop us a card, you can make money on it.

**RAMSAY'S
PAINTS**

do their work well. It is a pleasure to brush them out. They work evenly and smoothly, because they are well mixed and finely ground. Ramsay's Paints are ready for use, mixed to just the proper consistency, dry hard, dry glossy, preserve the house in all kinds of Canadian weather. Ramsay's Paints make a cottage look ten years' younger. Ramsay's Paints pay, the price is just right and so are the dealers' profits.

**RAMSAY'S
ENAMELS**

Just the thing for all cute little decorations about the house, also for bicycles, etc., etc.

A. RAMSAY & SON,**PAINT
MAKERS,****MONTREAL.**

Have your foundation
well and truly laid

FOR

Spring Trade

**Oval and Flat Paints
Flat Wall
Sash Tools
Varnish, Oval or Flat
Kalsomine
Whitewash
Paperlayers'
Paint Dusters**

**Scrubs
Shoe
Store**

**Dandy
Horse
Stable Brooms**

**Bannister and Hair Brooms
Window Brushes and Rubbers
Dusters and other Household Brushes
Brooms, Whisks and Woodenware**

And a well selected stock of

**Boeckhs'
Brushes, Brooms,
and
Woodenware.**

Our Illustrated Catalogue for the asking.

BOECKH BROS. & COMPANY

Branches in
**Montreal, Winnipeg
and Vancouver.**

Manufacturers

TORONTO, ONT.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

GRIFFIN AND SHIELD BRAND

TRADE



MARK

This Mark is a Guarantee
of Quality.

Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

of Montreal

MANUFACTURERS

HALL'S PATENT

Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our

Mixed Paints Varnishes
Floor Paints Colors in Oil
etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

MONTREAL

CANADIAN GOODS WANTED.

The London, Eng., representative of **HARDWARE AND METAL** writes: The following inquiries have recently been received at the office of the High Commissioner for Canada in London from firms desiring to do business with Canada:

An inquiry has been received from the Government agent in Antwerp for the names of firms in the Dominion wishing to import Belgian starch, chicory, and meerschaum. The names of exporters of hides (salted and dry), tobacco (unmanufactured), and boots and shoes are also asked for from the same quarter.

A firm of pressed-glass makers in the north of England ask for the names of importers and distributors of glassware, or of glass, china and earthenware.

A Scotch firm of flour and grain commission agents wish to be placed in connection with a good shipper of oats from Canada. They would also like to represent a good provision house.

A gentleman at present buying Russian fir cask staves, wishes to import similar goods from Canada, if satisfactory prices are quoted. The sizes required are $41\frac{1}{2} \times 9-16 \times 2\frac{1}{2}$ —6, and $27 \times \frac{3}{4} \times 3$ —7.

The agent for the Government at Cardiff has received an inquiry in reference to raspberry pulp from a large firm who prepare raspberry juices and essences. For a good sample they are prepared to guarantee a good minimum price.

A Glasgow firm are open to import broom handles on commission or to buy such goods outright, by arrangement. They also inquire for shippers of seeds and peas.

The patentee of an enamel for refixing dental plates wishes to correspond with buying agents and wholesale chemists in the Dominion who would be open to do business in this line.

Any communications received at this office in regard to the above will be forwarded to their proper destination.

E. B. EDDY CO. MAKING BRUSHES.

The E. B. Eddy Co. has begun the manufacture of brushes, for house, outdoor and stable use. The company has secured the right to make brushes for Canada similar to those made by a large factory in Frederick, Maryland. Modern machinery from this place has been installed.

The fibre used in the brushes is of the finest Tampico, manufactured out of the bark of trees, and comes from Florida.

Although many designs are being made at present, new ones will be added as required by the trade.

The first shipment was consigned to Toronto the other day.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO.,

Gooderham Building,

Toronto**Geo. D. Wood & Co.**

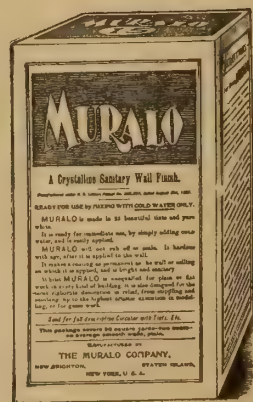
WINNIPEG, MAN.

Importers of and Dealers in

SHELF AND HEAVY**HARDWARE, PAINTS, OIL, GLASS, PUMPS, ETC.**

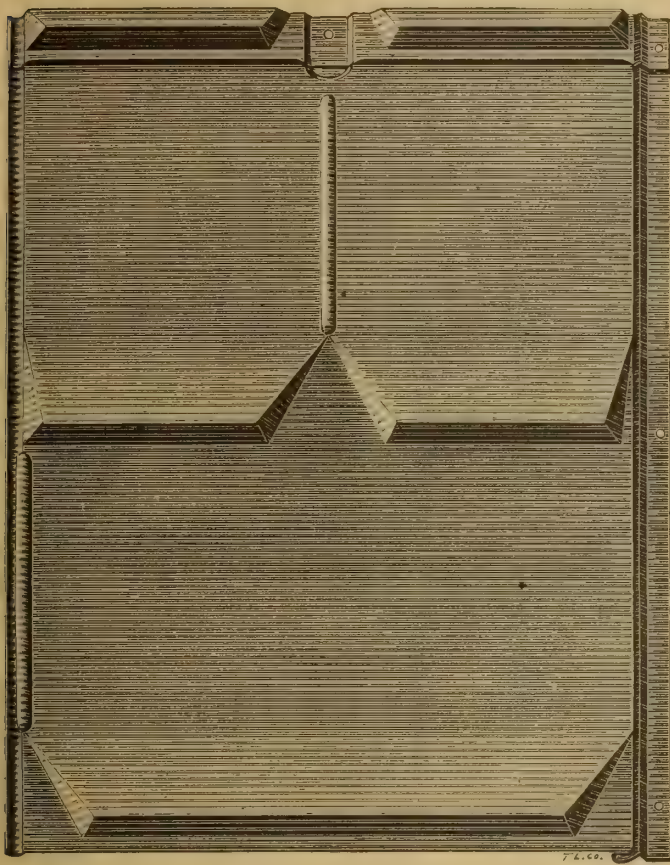
Stock now complete in seasonable lines. Prompt shipment.

Letter orders receive special attention.

Cold Water Wall Tint**“MURALO”****MURALO** is the leader to-day for a sanitary cold water wall tint.**MURALO** is nicely put up in firm packages, looks well on the shelf and is uniform in tone, finely ground in all the very latest tints.**MURALO** once sold repeats itself, can be re-coated any number of times without washing off previous coats.**MURALO** is fireproof when placed on a solid surface.

Have you got it? If not drop us a card and we will give you particulars and help you sell it.

GOOD PROFIT.**A. RAMSAY & SON, MONTREAL,****SOLE AGENTS FOR CANADA.**



THE OSHAWA SHINGLE.

This is the newest and most complete Steel Shingle on the market. Originally it was created for use on the best class of buildings, but since its introduction—and great success—we have perfected its manufacture so that we are now able to offer it at a price that will compete with inferior articles. This shingle does away with the objectionable “cleat,” it being so constructed that it will lock all around, thereby forming an absolute protection from drifting rain and snow.

This shingle is sold on its merits, and we will gladly ship you a trial order on the condition that if it is not the **MOST PRACTICAL AND COMPLETE STEEL SHINGLE ON THE MARKET** they may be returned at our expense.

Manufactured only by the

Pedlar People

OSHAWA, ONT.

Branch at 22 Victoria Square, Montreal, Que.

Henderson & Potts

NOVA SCOTIA PAINT AND VARNISH WORKS.

MANUFACTURERS OF

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty, Dry Colors,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., MONTREAL

TREAT THEIR EMPLOYEES WELL.

THE Cleveland, O., Plaindealer, in a recent issue, gives an interesting description of the lunch-rooms provided by The Sherwin-Williams Company for the convenience of their employees.

The management of the company desired to improve on the old condition of affairs, when the employees were obliged, by the shortness of the dinner hour, to bring cold lunches to the shop or warehouse, where they were eaten in the most convenient place they could find, so two floors of one of its buildings were converted into lunch-rooms. At the start it was supposed that the most that could be done would be to provide a suitable and clean place where the employees might eat the lunches that they brought themselves, but later it seemed possible and advisable to add a kitchen in which hot dishes might be cooked and served to supplement the cold lunches.

During the last quarter of the company's fiscal year nearly 12,000 lunches were served. Each day's menu consists of a cup of tea or coffee and one hot dish, either a stew or soup, which is served free. Besides these, there is a selection of extras for those who prefer not to carry their own lunches and wish more than the articles served free of charge. These extras are all provided at the exact cost price, and no charge is made for the service. The men appoint waiters from their own number, one for each table. These waiters serve for a week at a time, and in this way every man in the company gives himself ungrudgingly to the work. The foremen of the various departments have charge of the dining-rooms in turns of two weeks each. The men have a separate dining-room, and just below it is one for the 76 girls who are employed in the works.

Following is a sample of the bill of fare:

Beef Stew	Boiled Potatoes.
Bread and Butter.	Crackers.
Fruit Salad.	Milk. Buns. Cream Puffs.
Pie.	Oranges.

This innovation, besides serving as a good healthful place for eating, is also a common meeting-ground for the employees of the company, who thereby become well acquainted with each other and build up a fellowship which otherwise would be impossible. Everyone eats in these lunch-rooms, the president and officers of the company as well as all others. The traveling representatives, when in town, go there, and find it a most enjoyable place to eat, and a relief from their usual hotel and restaurant life.

While the prices that obtain are those of the cheapest of restaurants, the cooking is that of one of the most noted chefs in Cleveland, called "Uncle Eli" Lucas. He has two assistants for the merely manual part of the work, but does all the cooking himself.

There are so many employees that it is impossible for them all to be served at once, so they come in two shifts. No formality prevails at the meals, but, on the other hand, there is no rudeness. The men appreciate what is done for them and its reason. They accept it with self-respect, and this proper spirit leads them to live up to their opportunities in the right way.

When the luncheon is over and the men have any time at their disposal, there are books and magazines near at hand for them to dip into. In time there will be a regular library for their use, but the space limitations of the building now forbid.

It is the intention of the Sherwin-Williams Company to establish luncheon-rooms similar to this in all the branch houses of the firm, both in the United States and Canada, as soon as necessary space can be secured.

This lunch-room is not the only unique feature of the Sherwin-Williams factory. It has a laundry of its own to keep the many towels, aprons, etc., clean, for cleanliness is an essential of the S.W.P. business. Their baths and washrooms are also of much benefit to the employees.

The Sherwin-Williams Employees' Mutual Benefit Society was organized in 1887, and includes over 150 members. The dues of this organization are 1c. on each dollar of the weekly wage of any member. The sick benefits are 50 per cent. of the wages of any member, paid for not less than one week or for not more than 12 weeks within a year. The society pays a death benefit of \$25 to the heirs or assigns of any person that dies while a member. The company makes an additional payment of \$75, thus making the total benefit \$100.

The company has a printing plant of its own. With this, besides the great amount of advertising and commercial printing done for its own use, a monthly magazine, The Chameleon, is printed for distribution among the staff. This is gotten up very neatly, and contains articles from the heads of the various departments, notes and news of interest, and, in fact, everything that tends to bring the departments of the company more closely together. It is a unique publication, only one other of its kind being in existence.

These innovations should be appreciated by the employees of The Sherwin-Williams Company, and should result in the best of feeling between employers and employees, and in an improvement, if possible, in the quality of paint produced by the firm.

ELECTRICAL MEN IN SESSION.

The electrical men of the Maritime Provinces met in Halifax last week, about 40 being present. The report of J. H. Winfield, the secretary-treasurer, showed a membership of 59. Three new members joined while the association was in convention, thus making the total membership 62.

The following officers were elected:

President—F. A. Huntress, Halifax.
Vice-president—P. R. Colpitt, Halifax.
Secretary-treasurer—R. T. MacKeen, Halifax.
Executive Committee—H. Brown, St John; John Edington, Moncton; J. E. Waddell, Summerside, F. A. Hamilton, Irving Smith, J. A. Anderson, Wm. Pickles, Halifax.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

The
**DETECTIVE AND CONFIDENTIAL
AGENCY.**

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employes or Friends.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice.
Price \$30. Will take \$20.

19 Board of Trade, Montreal.

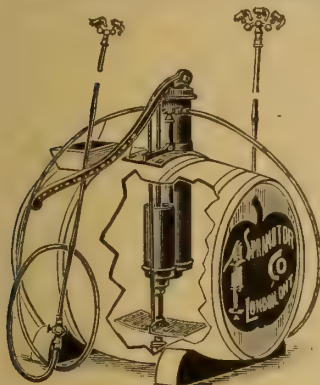
29 Years. Established 1870. 29 Years.

**SEASONABLE GOODS
AT RIGHT PRICES.**

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO. - MONTREAL.

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898. Spramotor Company, London, Ont. Gentlemen,

The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in

spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus, had practically none. Yours truly, W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

The Latest. 1899 The Best.



**Banner Cold
Blast Lanterns**

**LARGE WHITE
FLAME.
WINDPROOF.**

With locked seamed tubes, no solder.

The only Tubular Lantern made with the Patent Safety Extinguishing Burner.

No more blowing out, no explosions.

For sale by all prominent hardware and lamp goods merchants in the Dominion.

Manufactured by

**The Ontario
Lantern Co.,**

(18) Hamilton, Ont



**IRON AND
BRASS**

Pumps

**Force, Lift and Cistern
Hand and Power.**

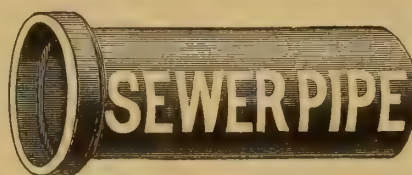
For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited

Manufacturers, Galt, Canada.

FULL STOCK

DIAMOND BRAND



**WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,**

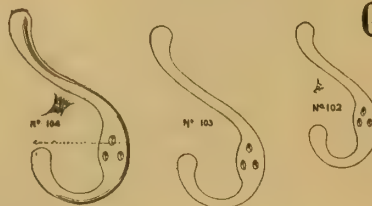
**CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.**

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited



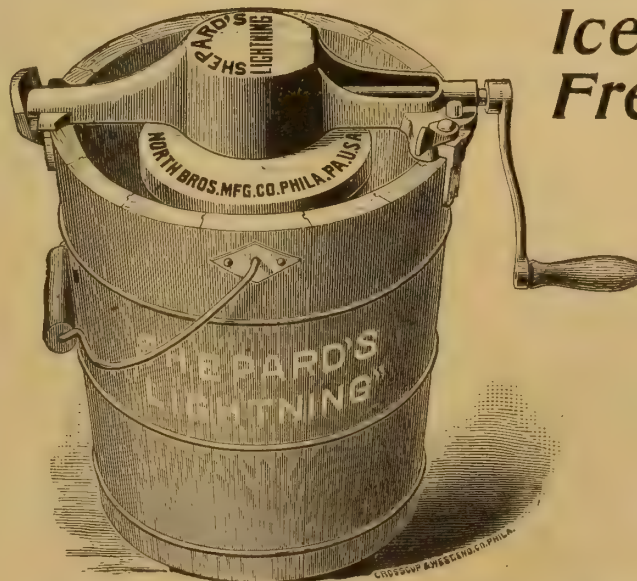
Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220 1/2 Board of Trade, MONTREAL



**Ice Cream
Freezer**

"Lightning"

Famous Wheel Dasher,
quadruple motion.

All sizes in stock.

1 to 14-qt. with crank.

14 and 20-qt. with clutch
and flywheel.

Refrigerators,
Spring Hinges,
Green Wire Cloth, etc.

The THOS. DAVIDSON MFG. CO., Limited
MONTREAL.

Enamelled Tins

The
Best Oils and
the prettiest
tins on
the market.

No paper
labels.

Unlike
Petroleum
GOOLD'S
Lamp Oil
does not blow
or jolt out.



GOOLD'S

CYCLE OILS

are recommended by

Field-Marshal Lord Roberts,
etc., etc. V.C., K.P.

AGENCY.

We are open to give the sole buying
agency for Canada to an influential
firm.

GOOLD'S, LIMITED

(17)

Liverpool, England.

PECK, BENNY & CO'S "AT HOME."

TUESDAY was a red letter day for Peck, Benny & Co's employes, for these popular employers tendered their 400 employes an "At Home" in their large tack and nail works. This is an old English custom that might more often be carried out in Canada.

Invitations had been sent to all prominent business men in Montreal, and were generally accepted. Their large tack works were used as a banquetting room. The machinery had been removed and tables arranged around the sides, whilst at one end a platform had been raised. The sides of the building were tastefully festooned with flags and bunting, and the tables and platform were loaded with palms and flowers.

At 10.30 the doors of the room were opened and the reception began. Each employe was received by Mr. and Mrs. James Peck, surrounded by their six sons.

After the presentation, Mr. James Peck delivered a short address to his employes thanking them for their loyalty in the past, and said the present "At Home" was a special recognition of their services during the fire in their premises last August, when they so manfully fought the fire, whilst the fire brigade was handicapped in reaching the buildings.

The French employes then came forward and presented Mrs. Peck with an illuminated address and a beautiful casket of flowers both of which were gracefully acknowledged in English and French.

Luncheon was then served in the large hall, and a special luncheon to specially invited guests in a smaller room. After luncheon, the following toasts were honored: "The Queen," "The President of the United States," "Our French Fellow-Workmen," "Our Neighbors," "City of Montreal," and others.

Short addresses were given by Messrs. Quinn and Penny, M.P.'s, after which dancing was carried on till 6 o'clock, when all went home thoroughly pleased with their day's entertainment.

That Peck, Benny & Co. have been popular employers is attested by the fact that many of the men have been in their employ over 40 years. Each employe who had been in the works over ten years wore a badge giving the time he had been there, and it really seemed that all had one on. To Baptiste Laporte belongs the honor of being the oldest employe. He has been there 42 years; or, in fact, all his lifetime. He commenced when 15 years old. They have over 60 veterans in their employ.

These extensive works were destroyed by fire on August 2 last, and have been

thoroughly rebuilt and all the latest improvements in the way of machinery added, so that they are now thoroughly up-to-date. They are large manufacturers of iron bars and shapes of all kinds, railway and ship spikes, horseshoes and horseshoe nails, cut and wire nails, tacks, etc. The works have been running since February last, but, owing to the water being out of the canal, are not now running. They expect to start about May 1.

Among the prominent men present were the following: Mayor Prefontaine, E. Goff Penny, M.P., M. J. F. Quinn, M.P., L. H. Hebert, D. T. McIntire, W. F. Torrance, J. R. Kinghorn, Wm. Near, J. Hersey, Col. Gardiner, Wm. Meldrum, Robt. Meldrum, Col. Caverhill, Col. Starke, Capt. Starke, Messrs. Lariault, Jeanette, McMaster, Abbott, Bellhouse and others. The following ladies also graced the occasion with their presence: The Misses McFarlane, Mrs. Wigmore, Mrs. Cox, Mrs. Sterling, Mrs. Cummings, Mrs. Andrew Taylor and Mrs. Clark Murray.

Taken altogether, it was a complete success, and redounds greatly to the credit of those who had the affair in charge, and will be long remembered by employers and employes and those who were fortunate enough to be favored with an invitation.

THE RETAIL MERCHANT OF 1900.

What changes may be looked for within the next few years? This is the query on which all retailers with small capital may well ponder. Already the thoughtful merchant has recognized the necessity for the adoption of safeguards to prevent the loss of capital. It may be said that hard times have made people the more careful of their dimes, or that the great department stores in the cities, with their peculiar methods, have made a hole in the small merchant's profit, or that it is the ever-extending trolley line or the frequent cheap excursions to the large centres. It may be said that it is the mail-order houses supplying the consumer. But, say what you will, there is no denying the fact that changes have come and that changes are still going on. Let every merchant, therefore, fortify his business by adopting the soundest rules. Let him collect his accounts promptly; let him sell more nearly for cash; let him meet competition rationally; let him push profitable goods energetically and restrict his buying to what he can sell, and sell quickly. The necessity of the hour is to make the business pay, whatever it is, or else the retailer must prepare to join the wageworkers of the world with whatever grace he can command.—John T. Plummer.

TRADING STAMP STORE CLOSED.

THE retail grocers of Chatham have formed an association, with J. A. Wilson as president, and J. W. Dyer as secretary-treasurer. The grocers decided to do away with all cash premiums on May 1. Persons having cards will be allowed the amount of the cards up to the time the grocers quit the premium business. The following will be printed on cards and placed in all the grocery stores in the city, says The Planet, of Saturday:

"The grocers of the city of Chatham have unanimously decided and agreed on and after May 1, 1899, to discontinue giving trading stamps, coupons, furniture, cash rebates or any articles of merchandise."

An interesting sequel to the above is the following from The Planet of April 17:

"The many friends of F. J. Reid, of the Trading Stamp Company, will regret to hear that owing to an unfortunate combination of circumstances he was forced to close his establishment on Saturday evening. Had Mr. Reid done this a couple of years ago he might have saved for himself some \$500 or \$600, but in an effort to protect as far as possible the interests of his patrons he held out as long as possible. The action taken by the grocers in discontinuing the use of the stamps has been mooted for some time. The result has been that the demand for stamps has fallen off, while those who held them have in many cases combined together to make up the necessary \$100 and claim their premiums. This, of course, soon brought things to a climax, and when everything was gone on Saturday Mr. Reid was forced to shut down."

MURALO WALL TINT.

In the wall tinting line, it is learned that The Muralo Co., of New Brighton, N.Y., has entered the Canadian market in search of new fields for business enterprise. The Muralo Co. is one of the American up-to-date advertisers of their goods by advertising in good journals and personally joining with the dealer to help him sell the goods. "Muralo" is a wall tint which only requires to be mixed with cold water to be ready for use, and, although it is only now being introduced into Canada, it has an extensive sale in the United States and many countries of Europe, while in the British colonies the connection is very wide, so that The Muralo Co. found it necessary to have their advertising matter printed in four different languages. The company has an extensive plant at New Brighton, N.Y., and is a wealthy corporation. It is understood that A. Ramsay & Son, Montreal, have been appointed sole agents for the distribution of these goods in Canada.

If you sell Files

you naturally want the kind that
you can guarantee will cut fast-
est and wear longest.

The Arcade File

is just that kind. Don't take our
word for it but send your dealer
a sample order, no matter
how small, and if they
don't cut faster and
wear longer than
any other, send
them back.

The Arcade
Files are the
only files in the
market with Weed's
Improved Patented In-
crement Cut, and are made
in the best equipped file works
in the world. We've been mak-
ing files fifty-seven years and cer-
tainly know how.

THE ARCADE FILE WORKS

ESTABLISHED 1842.

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

WORKS:
Anderson, Ind.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.



HEATING AND PLUMBING

PERFECT SEWERAGE AND PERFECT HEALTH.*

By G. N. Sinclair, of Hoboken, N.J.

THE essentials of perfect health are pure air, pure water, pure food, and good sanitary surroundings; failure to provide these results is increased sickness and premature death.

The first essential to good sanitary surroundings in towns is a perfect system of sewerage. This is especially the case where a water supply has been introduced, for the introduction of water pressure brings with it all modern plumbing improvements, which necessitate the prompt removal of the sewage effectually out of harm's way. Unfortunately, it must be said that not one-quarter of the towns of the United States having a water supply are equipped with sufficient sewerage. This is, no doubt, explained by the fact that whereas water can generally be supplied at a profit, the construction and maintenance of a sewerage system, on the other hand, brings no financial returns, and, therefore, its cost must of necessity be borne by the property-owners, who, being loath to increase their taxes, move slowly in the matter of this important sanitary improvement. This is a deplorable state of affairs from the tenants' point of view, especially when it becomes known that, generally speaking, an efficient system of sewerage can be built in a municipality at about one-half the cost of a water supply. Public opinion, however, is gradually awakening to the vital necessity of perfect sewerage, but still the education of the masses on the subject of sanitation must be kept up before a general demand will be made for the perfect drainage of our towns.

LESSENED DEATH RATE.

That most of the preventable or zymotic diseases are due to the lack of efficient means of carrying quickly away from the habitations of municipalities the excrementitious matter has been verified in numerous instances. Every writer on sanitation has dwelt upon this fact, and ample verification of the improvement in the health of towns following the introduction of perfect sewerage has been furnished, both here and abroad.

In an address by Sir Douglass Galton, before the Sanitary Institution of Great Britain, he says: "It may be accepted as certain that in every case where the sewerage of towns has been designed on sound

principles, and where the works have been carried on under intelligent supervision, a largely reduced death rate has invariably followed." The following records of a few cities have been selected from a mass of statistics which emphasize this truth:

Mortality from typhoid fever per 10,000 inhabitants of European cities:

Munich.—From 1860 to 1865, when no sewerage existed, 16.8; from 1865 to 1875, when a partial sewerage system existed, 13.3; from 1875 to 1880, with perfect sewerage, 8.7.

Frankfort-on-the-Main.—From 1854 to 1859, when no sewers existed, 8.7; from 1875 to 1887, with perfect sewerage, 2.4.

Dantzic.—From 1865 to 1869, with no sewers, 10.8; from 1871 to 1875, water introduced, 9; from 1878 to 1880, with perfect sewerage, 1.8.

From Baldwin's Sanitary Engineer we find the following recorded reductions of the death rate from all causes following the introduction of sewerage systems in English towns: Newport, 32 per cent.; Cardiff, 32; Crayden, 22; Salisbury, 20; Macclesfield, 20; Ely, 14; Branbury, 12½.

In Hamburg the death rate from all causes from 1834 to 1844, when no sewers existed, was 48.8 per 1,000, and from 1861 to 1880, with a complete system of sewers, it was only 13.3. Surely this is strong evidence of the relative per cent. of perfect sewerage to the health of municipalities.

SEWERAGE SYSTEMS.

There is little or nothing wanted in the science of modern engineering to masterly handle this branch of municipal sanitation. For, give the skilled engineer the complete data of a town as to rainfall, density of population, contours of the ground surface, watercourses, etc., and he can design a

system of sewerage which will endure and answer for generations.

With this data before him he shall be required to consider whether the combined or separate systems will be the most advantageous and economical; that is, whether a single set of sewers shall be constructed to discharge together the rainwater and house drainage, or if separate sewers for each will be provided, or, again, if it may not be best to make use of both systems in part. The natural lay of the town with relation to its high-water line, or level of discharge at the outfall for the sewage, will enter largely into his consideration, together with the character of the inhabitants, style of dwellings, amount of manufacturing carried on. But, having decided on the subject, he will in designing a perfect system of sewerage be governed by the primary principle, that all sewers shall be so laid out as to shape, size, slope or grade and location that when running full the velocity of the flow will be sufficient to make them self-cleansing, so that all tendency to produce any stagnation of matter in them will be eliminated.

In the combined system, this self-cleansing is accomplished by the rainfall, but, in separate systems, into which little or no rainwater is admitted, periodical flushing must be resorted to.

In flat and low-lying areas, it may not be possible to obtain the necessary fall in the sewers without the use of artificial methods for raising the sewage by means of pumps, as, for instance, in the case of the city of Boston, Mass., where a large collecting sewer encircled the city, conducting the sewage of the street and lateral sewers into a basin 30 feet beneath high water, from which it is raised by immense pumps into settling basins 8 feet above high water, and, after sufficient settlement, it flows by gravity into reservoirs on an island (Moon Island)

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

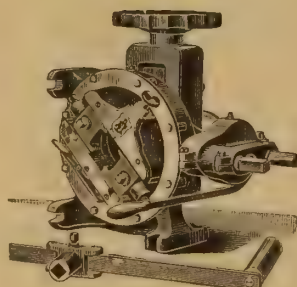
Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.



New No. 0 Threading Machine.

*Paper read at the annual convention of the National Association of Master Plumbers, New Orleans.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.



Gauge
Glass
Cutter

Cut your own Water Gauge Glasses to any required length.

**Valves, Stop Cocks
Pipe Fitting Tools**

The...

Jas. Morrison Brass Mfg. Co.

93 Adelaide W., Toronto. Limited

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon

The

CARPENTER GRASS HOOK.

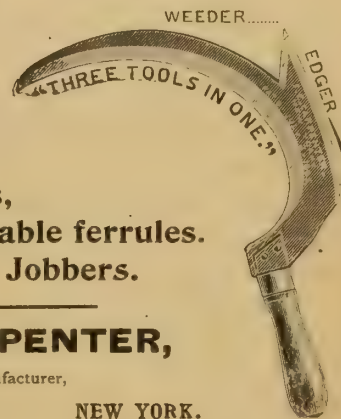
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

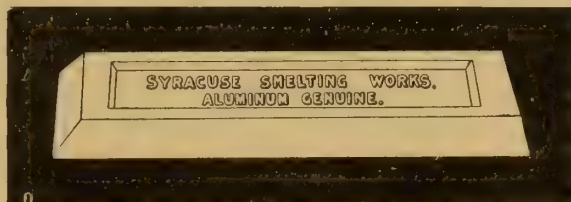
Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

USE SYRACUSE BABBITT METAL.

IT IS THE
BEST MADE.



FOR...

Paper and Pulp Mills,
Saw and Wood Working
Machinery,
Cotton and Silk Mills,
Dynamos, Marine Engines,
and all kinds
Machinery Bearings.

Pig Tin, Lead, Ingot Copper, Phosphor Tin, Phosphor Bronze Ingots, Brass, Nickel, Bismuth, Aluminum, Zinc
Spelter, Antimony, etc., furnished promptly.

— TINSMITHS' AND PLUMBERS' SOLDER A SPECIALTY. —

SYRACUSE SMELTING WORKS

B. Telephone 8171.

Factories—332 William Street, MONTREAL, QUE., and SYRACUSE, N.Y.

A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their
local mills and factories. Special discounts to the trade.
Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee



situated far out in the bay and there retained until the time of the outgoing tide, when it is discharged, and conducted by tidal currents out to sea. By this means, the rainfall and house-drainage of the city of Boston are gathered and disposed of.

DISPOSAL OF SEWAGE.

The disposal of the sewage of a town after it has been collected at the outfall is therefore a most important and serious consideration. In towns lying on the seacoast or in those situated on the banks of large and rapid running streams, or other large bodies of water, the discharge sewage may be thoroughly diluted and promptly carried to safe distances as in the case of the city of Boston on the sea, Chicago on Lake Michigan, New York on the Hudson and East Rivers, etc., but in the inland towns recourse must be had to a choice of several well tried methods of artificial disposal. Generally speaking, in such cases the separate system of sewers will be adopted so as to reduce as much as possible the amount of sewage to be treated artificially. The cases where artificial disposal works will be needed will be those where the volume of sewage exceeds about 1.20 that of the available streams. It must be remembered that purification of sewage is attended by oxidation of the organic matter contained therein; when the available water-courses are too small for this purpose either of the following methods must be adopted:

Broadly speaking, these three methods of artificial treatment for the purification of sewage are: 1. By intermittent filtration—that is, allowing the sewage to flow slowly through properly-prepared filter beds of sand, coke, etc., thus enabling the organic matter in the sewage to obtain sufficient air to become thoroughly oxidized, and then conducting the purified effluent to the natural watercourses. 2. By chemical precipitation, in which the use of such chemicals as alum, lime, copperas, etc., are used to precipitate the suspended organic matter in the sewage to the bottom of vats or tanks in the form of a sludge, and then discharging the liquid thus purified into the natural streams. After which the sludge is removed from the tanks and either destroyed by fire or applied to farming as manure. This was the system used at the World's Fair at Chicago in 1893; there the sludge was destroyed by fire, and the effluent discharged into Lake Michigan.

TORONTO BUILDING PERMITS.

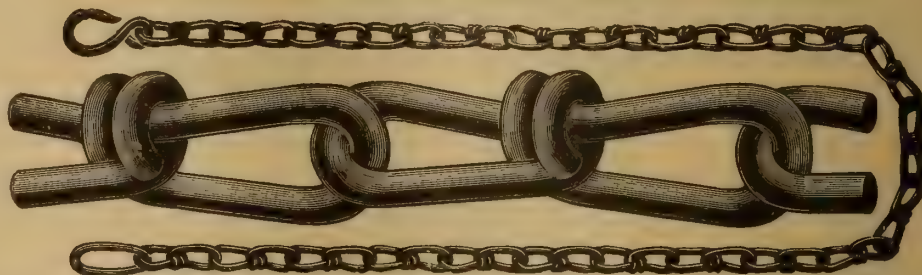
Building permits have been issued in Toronto to The Massey-Harris Co., Limited, for a four-storey brick and stone paint shop, 178 x 55 feet, on King street, near Massey street, to cost \$12,000; to T. Kinnear & Co., for an addition to their warehouse at

We Want Your Axe Order FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

49 Front street east, to cost \$800; to John Beatty, for a two-storey and attic brick residence at the south-east corner of Sor-auren avenue and Saunders avenue, to cost \$2,000.

PLUMBING AND HEATING NOTES.

Greenfield Bros. have started business as plumbers in Westmount, Que.

The stock of Paul Parent, plumber, etc., Quebec, has been sold at 41c. on the dollar.

H. N. Bernier, plumber, St. Hyacinthe, Que., is about commencing in the hotel business.

A meeting of the creditors of Lafrance & Lariviere, plumbers, Montreal, is to be held on May 4.

Dame Azena Robitaille, wife of Gaspard Lecompte, has registered as proprietress of G. Lecompte & Cie., plumbers, Montreal.

Thos. Charette and Alexandre Charette have registered partnership under the style of Charette & Frere, plumbers, Quebec.

The Toronto Board of Education have decided to include in the estimates for the coming year \$22,000 for a new 15-room school on Winchester street.

The Brandon, N.W.T., council has amended its plumbing by-laws to allow plumbers from any part of the Province to

do work in Brandon on payment of a license, without requiring them to have a place of business there.

CAPACITY OF WATER PIPE.

A correspondent of Metal Worker writes: "I would like to know how many gallons of water will flow through the following pipe in 24 hours. The line of pipe is 7,000 feet long, and the outlet or discharge will be 20 feet below the inlet. The pipe will be six inches in diameter with the exception of 600 feet on the end nearest the outlet, which will be four inches in diameter. There will be several angles in the pipe."

The answer given was as follows: "By approximating the friction and differential hydraulic heads of the two sizes of pipe we compute that the flow will be 180,000 gallons in 24 hours. The flow would be largely increased by continuing the six-inch pipe to the end of the line, say to 239,000 gallons in 24 hours."

PLUMBING AND HEATING CONTRACTS.

The Bennett & Wright Co., Limited, Toronto, have the contract for plumbing and gas-fitting in three houses for the Macpherson estate, Rosedale park, Toronto.

Blouin, Delfosse & Latreille, Montreal, have a contract for heating a house for M. Egan, on Cadieux street; also a new hotel at Valleyfield.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplate, Tinned Sheets, Terne Plates, Canada Plates Gal-
vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.

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1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
Hammer, and all kinds of Handles. Neck Yokes,
Singletrees, and Doubletrees, Bench Saws, Exercise
Clubs, Baseball Bats, etc., etc. Do you sell any
Shaved Pattern and Octagon Axe Handles? The
largest and best trade in Canada does, because they
give best satisfaction. All stock air-dried, not kiln-
dried. If you are going to be in it, place your
order with

GARDNER BROS. & CO.**ARE YOU A BUYER of****Hardware, Metals,
Paints, Oils, etc.?**

Send us Post Card, and a copy of the latest
issue of **HARDWARE AND METAL**, the lead-
ing authority on these trades, will be sent to
you free by next mail. Address :

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**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.

In addition to our extensive line of Malleable Hooks, we
have a fine large stock of

Patented U.S.**Wrought Iron Gas Pipe,
Soil Pipe and Plumbers' Hooks**

These are finest Wrought Hooks ever put on the market.
Get our prices.

BERGER'S ORNAMENTAL PIPE STRAP

Is much better and neater than the old. SEND FOR SAMPLE.

**Berger Bros. Co., Philadelphia, U.S.A.****STEVENS RIFLES****THE FAVORITE**

is made in three calibres

22, 25 and 32 Rim Fire

and is the best low-priced rifle made Highest quality of work.
Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
No. 18, Target Sights— " 11.50
No. 19, Lyman Sights— " 12.00

Send for our complete catalogue.

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
MASS., U.S.A.

**Ask for
Tint Card**

Of 16 beautiful tints (and white) of
that sanitary and absolutely perma-
nent covering for the walls and ceil-
ings of your rooms—Church's cold

water Alabastine. The card will help you every way. Goodbye to the
worry of constant wall-papering. Alabastine (never sold in bulk) becomes
as hard as the wall itself. It won't rub off, peel, or scale.

Painters use it and recommend it, but you can apply it yourself, if there
is no painter handy.—ask your dealer for the "TINT CARD" of

ALABASTINE

For sale by paint dealers everywhere

Free to any one who will mention this paper, a 45-page book, "The Decorator's
Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ont.**HUTCHISON, SHURLY & DERRETT**

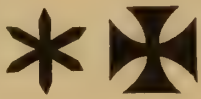
**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Shipping Ropes, Jute, Hemp and Flax Twines.**

CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS.

April 28, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 29
Straits 0 28 0 28½

Tin Plates.

Charcoal Plates—Bright.

M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 00
I.X. 6 25
I.X.X. 7 50
R. & Co.—
I.C. 4 75 5 00
I.X. 6 00 6 25
I.X.X. 7 25 7 50

Famous—

I.C. 5 00
I.X. 6 25
I.X.X. 7 50
Raven & Vulture Grades—
I.C., usual sizes 4 00
I.X. 4 75
I.X.X. 5 50
I.X.X.X. 6 25
D.C., 12½x17 3 50
D.X. 4 25
D.X.X. 6 25

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—
I.C., usual sizes 3 15
I.C., special sizes, base... 3 25
20x28 6 75
Charcoal Plates—Terne.
Dean or J. G. Grade—
I.C., 20x28, 112 sheets 6 25
I.X., Terne Tin 7 75
I.C., Orion 6 25
I.X., Orion 7 25 7 75

Charcoal Tin Boiler Plates. Per lb.
X.X., 14x56, 50 sheet bxs }
" 14x60 " } 0 05½ 0 06
" 14x65, " }

Tinned Sheets.
72x30 up to 24 gauge 0 06 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07½ 0 07¾

Iron and Steel.

Common Bar, per 100 lbs Base Price
" from factory " 1 70
Refined " 1 60
Horse Shoe " 2 20
Hoop steel, 1½ to 3 in. base, 1 50
extras for smaller sizes 1 90
Swedish " 2 60
Sleigh Shoe Steel " base 4 00
Tire Steel 4 25
Machinery " 2 25
Cast Steel, per lb 2 40
Toe Calk Steel 0 10 0 14
Thos. Firth & Sons' Cast Steel 2 70
Russian Sheet, per lb 0 10½ 0 11
Tank Plates, 1-5 and thicker. 2 00
Boiler Rivets 2 25 4 50

Boiler Tubes.

1½-inch
2 "
2½ "

Steel Boiler Plate.

3-16 inch

3-16 inch
¾ inch and thicker.....

Black Sheets.

18 gauge 2 40
20 " 2 50
22 to 24 " 2 55
26 " 2 65
28 " 2 85

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright..... 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$3.10; ¾ inch, \$3.10; 1 inch, \$3.40; 1 inch, \$4.85; 1½ inch, \$6.50; 2 inch, \$8.00; 2 inch, \$11.00. 2½ to 6 inch, discount 60 and 1½ p.c.
Galvanized, ¼ to ¾ inch, \$5.60; ¾ inch, \$5.60; 1 inch, \$6.10; 1 inch, \$8.9; 1½ inch, \$12.00; 2 inch, \$14.75; 2 inch, \$19.75.

Galvanized Iron.

G.C. Comet. Amer. Head.
16 gauge 3 75 4 00
18 to 24 gauge 4 00 3 25 3 90 4 25
26 " 4 25 3 50 4 15 4 50
28 " 4 50 3 75 4 50 4 75
Less than case lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs 6 90
" ¼ " " 4 40
" 5-16 " " 4 40
" ¾ " " 4 00
" 7-16 " " 3 80
" 1 " " 2 75
" 1½ " " 3 55
" 2 " " 3 45
Trace, per doz. pairs. 3 60 5 90
Jack chain, iron, single, per doz. yards. 0 13 0 50
Jack chain, double, per doz. yards. 0 15
Jack chain, brass, single, per doz. yards. 20 10

Copper.

Ingot.
English B. S., ton lots 0 19 0 19½
Lake Superior
Bolt or Bar.

Cut lengths, round, ½ to ¾ in. round and square 1 to 2 inches 0 23 0 24

Sheet.
Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16 oz., irregular sizes. 0 23 0 23½
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3 cents per pound.
Tinned copper sheets 0 26
Planished 0 32

Braziers. (In sheets.)
4x6 ft. 25 to 30 lbs. ea., per lb. 0 25
" 35 to 45 " 0 24
" 50-lb. and above, " 0 23

Boiler and T. K. Pitts.
Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 5 to 7½ p.c. off list.
Sheets, hard-rolled, 2x4 0 24 0 25
Tubing, base, per lb 0 24 0 25

Zinc Spelter

Foreign, per lb 0 07½ 0 07¾
Domestic "

Zinc Sheet.

cwt. casks 0 08½
Part casks 0 08½

Lead.

Imported Pig, per lb 0 04½ 0 04½
Domestic, per lb
Bar, 1 lb. 0 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05½
Sheets, 3 to 6 lbs., per sq. ft., by roll. 0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra
Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount
NOTE.—Cut lengths, net price, waste pipe 8-ft. lengths, lists at 7½ cents.

Shot.

Net list, no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Per lb. Per lb.
Bar half-and-half 0 17½ 0 18½
Refined 0 17½ 0 17½
Wiping 0 16½ 0 17

NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market, indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½

White Lead.

Per cwt.
Pure, Assoc. guarantee, ground in oil, 25 lb. irons 6 00
No. 1 do 5 62
No. 2 do 5 25
No. 3 do 4 87½
No. 4 do 4 50
Robertson's Chemically Pure 6 00
Munro's Select Flake White 6 25
Elephant and Decorators' Pure 6 00
Brandram's B. B. Genuine 8 00
James genuine " No. 1 7 25
" No. 1 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 04½
Pure, kegs 0 04½
No. 1, casks 0 04½
No. 1, kegs 0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00
Robertson's Pure 1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 07
Chrome Yellow 0 11
Golden Ochre 0 06
French 0 05
Marine Black 0 09
Green 0 09
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt 1 35 1 40
Yellow Ochre (J.F.L.S.) bbls. per cwt 2 75
Yellow Ochre (Royal), per cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80 1 90
English Oxides, per cwt. 3 00 3 25
American Oxides, per cwt. 1 75 1 90

Canadian Oxides, per cwt. 1 75 1 90
Burnt Sienna, pure, per lb. 0 10
Umber, 0 10
do aw 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03½
Ultra marine Blue in 28-lb. boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 50

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1-lb. packages 0 15
½ lb. 0 16½
1-lb. tins 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 06
100-lb. lots, do. per lb. 0 07

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.) per gal
Carriage, No. 1 0 90
Extra do. 1 03
Body Varnish 1 65
Furniture Varnish 0 45
Extra do. 0 80
Demar Varnish 1 40
Hard Oil Finish 1 10
Orange Shellac Varnish 1 90
White Shellac 2 00
Rubbing Varnish 2 40
Brown Japan 0 70
Elastic Oak 0 90

Linseed Oil.

Raw, per gal. net 0 52
Boiled, per gal. net 0 55
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 63
Outside points 1c. more

Castor Oil.

In cases, per lb 0 10½
Small lots 0 11½

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 75
Neatsfoot

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medial 0 12 0 12½
Cabinet, sheet 0 11 0 12
White, extra 0 16 0 18
Gelatin 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
R. B. Caps, Dom., 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p.c. Amer.

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, American list. B.B. Caps, discount 45 per cent.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Riva and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent.
Primers, Dom., 30 per cent.

Wads.
Best thick white felt wadding, in ½-lb bags, 1 00
Best thick brown or grey felt wads, in ½ lb. bags, 0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges
Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
Thin card wads, in boxes of 1,000 each, 8 gauge, 0 25
Chemically prepared black edge grey cloth wads, in boxes of 250 each—
11 and smaller gauge, 0 60
9 and 10 gauges, 0 70
7 and 8 gauges, 0 90
5 and 6 gauges, 1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
11 and smaller gauge, 1 15
9 and 10 gauges, 1 40
7 and 8 gauges, 1 65
5 and 6 gauges, 1 90

Adzes.
Discount, 33½ per cent.
Anvils.
Per lb. 0 10 0 12½
Anvil and Vice combined, 4 50
Wilkinson & Co.'s Anvils, lb. 09 0 09½
Wilkinson & Co.'s Vices, lb. 09½ 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised list.
Hollow Stearn's, per dozen, 13 00 20 00
Adjustable Stearn's, each, 4 50 6 50
Post-hole, Vaughan's, each, 60 90

AXES.
Splitting Axes, 5 25 5 50
Chopping Axes—
Single List, per doz., 6 00 12 00
Double List, 11 00 18 00
Bench Axes, 40 and 15 p.c.
Broad Axes, 33½ per cent.

Bath Tubs.
Zinc, discount, 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised list
Boxing extra

Anti-Friction Metal.
"Tandem" A, per lb., 0 23
" " B, " " 0 19
" " C, " " 0 11½
" " 1, " " 0 21
" " 2, " " 0 15
" " 3, " " 0 10
" " Canadian, " " 0 08½
Magnolia Anti-Friction Metal, per lb., 0 25
No Name Metal, " " 0 15
Mystic Metal, " " 0 10
F. O. B. New York or Chicago.

Bells.
Hand, 60 per cent.
Nickel, 55 per cent.

Door.
Gongs Sargent's, 5 50 8 00
" Peterboro', discount 50 per cent.

Cow.
American make, discount 66½ per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each, 1 25 3 00

House.
American, per lb., 0 35 0 40
Bellows.
Hand, per doz., 3 35 4 75
Moulders, per doz., 7 50 10 00
Blacksmiths', discount 60 per cent.

Belted.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47½ to 50 per cent.
Expansive
Clark's 40 per cent.

Gimlet.
Clark's, per doz., 0 65 0 90
Diamond, Shell, per doz., 1 00 1 50
Nail and Spike per gross, 2 25 5 20

Blind Rollers.
Annex, per doz., 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 00

Blind and Bed Staples.
All sizes, per lb., 7½ 0 12

Bolts and Nuts.
Norway Bolts, full square, 70
Common Carriage Bolts, 5-16 & under, 60
" " " ¾ and larger, 55
" " " full square, 70
Machine Bolts, all size, 75
Coach Screws, 75
Sleigh Shoe Bolts, 75
Black Bolts, 60
Bolt Ends, 65
Nuts, square, 4½ c.
Nuts, hexagon, 5 c.

Tapping Nuts.
Tire Bolts, 65 and 10
Stove Bolts, 65 and 10

Boot Calks.
Small and medium, per M., 4 50
Small heel, per M., 4 25

Broilers.
Light, dis., 65 to 67½ per cent.
Reversible, dis., 65 to 67½ per cent.
Vegetable, per doz., dis., 37½ per cent.
Henia, No. 8, 6 00
Henia, No. 9, 7 00
Queen City, 7 50 0 00

Butchers' Cleavers.
German, per doz., 8 00 11 00
American, per doz., 12 00 20 00

Building Paper, Etc.
Plain building, per roll, 0 30
Tarred lining, per roll, 0 40
Tarred roofing, per 100 lb., 1 45
Coal Tar, per barr., 3 75
Pitch, per 10-lb., 0 60
Carpet felt, per 100 lb., 2 10

Full Rings.
Copper, (\$1.5) for 2½ in. and \$2 for 2 in.

Rutts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.

Cast Iron.
Loose Pin, dis. 60 to 60 and 10 per cent.
Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Ten. Bronzed, per pair, 0 40 0 65

Cards.
Horse per doz., 0 60 1 00

Carpet Sweepers.
Bissell, per doz., 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz., 20 00
Grand Rapids, " 24 0 33 00

Carpet Stretchers.
American, per doz., 1 00 1 50
Bullards, per doz., 6 50

Castors.
Bed new list, dis. 55 to 57½ per cent.
Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
Nos 31 and 32, per gross, 8 50 9 50

Cement.
Canadian Portland, 2 65 2 90
English, " 2 80 3 00
Belgium, " 2 50
Canadian hydraulic, 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per gross, 0 45 0 75
White lump, per cwt., 0 60 0 65
Red, " 0 05 0 06
Crayon, per gross, 0 14 0 18

Chisels.
Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warneck's, dis. 40 and 10 per cent.

Churns.
Revolving Churns, metal frames—No. 0, \$3; No. 1, \$3.20—No. 2, \$3.40—No. 3, \$3.75—No. 4, \$4.50—No. 5, \$5.90 each. Ditto, wood frames—15c. each less than above. Terms 4 months or 3 p.c. off 30 days, f.o.b.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain, 3 25
" embossed, 3 50
Connections, 1 10

Compasses, Dividers, Etc.
American, dis. 62½ to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent. from factory.

Dies.
Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
Torrey's Rod, per doz., (15 p.c.), 2 00
Coil, per doz., 0 88 1 60
English per doz., 2 00 4 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz. net list.

DRILL BIT.
"orse, dis. 37½ to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz., 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.

Black Diamond, 50 and 10 to 60 per cent.
Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.
Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS.
Ice Cream.

White Mountain, 1 to 25 qt., 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
Henis', per doz., 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's Nos. 26 to 33, each, 1 65 2 40

GLASS.
Window.
Box Price.

Size United Inches.	Star. Per 50 ft.	Double Diamond. Per 100 ft.	Per 100 ft.
Under 25	1 80	3 50	5 50
26 to 40	1 95	3 30	6 10
41 to 50		4 20	6 75
51 to 60		4 50	8 00
61 to 70		4 80	8 75
71 to 80		5 20	9 75
81 to 85		5 80	10 75
86 to 90		6 80	13 00
91 to 95			14 75
96 to 100			16 75
101 to 105			18 75
106 to 110			22 75

HALTERS.
Rope, ¾ per gross, 8 25 8 75
" ½ " 9 25 9 50
" ¼ " 11 00 11 20
Leather, 1 in., per doz., 3 87½ 4 00
" 1½ in., " 5 15 5 20
Web, — per doz., 1 87 2 45

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27½ per cent.

Tack.
Magnetic per doz., 1 10 20

Sledge.
Canadian, per lb., 0 07½ 8½

Ball Pean.
English and Can., per lb., 0 22 25

HANDLES.
Axe, per doz., net, 1 50 2 60
Store door, per doz., 1 00 1 50
Chest, per doz. pairs, 0 40 2 50

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz., 1 00 25

Plane.
American per gross, 3 1

Hammer and Hatchet.
Canadian, 45 per cent.

Cross-Cut Saw.
Canadian, per pair, 0 13½ 0 20

HANGERS.
Door, 4 and 5 inch, per pair, 0 40 50
Lanes, 62½ per cent.

HARVEST TOOLS.
Discount, 60, 10 and 5 per cent.

HATCHETS.
Canadian, dis. 40 to 42½ per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb., 0 01½
" " 5-in., " 0 04½
" " 6-in., " 0 04½
" " 8-in., " 0 04½
" " 10-in., " 0 04

crew hook and hinge
6 to 12 in., per 100 lb., 3 75
14 in. up, per 100 lb., 3 00

Spring, per doz., Per gross, pair, 8 50

Planters.
Garden, Mortar, dis. 60, 10 and 5 p.c.
Planter, per doz., 4 00

HOOKS.			NAIL PULLERS.			RULES.			TACKS, BRADS, ETC.		
Cast Iron.			German and American.....			Boxwood, dis. 75 and 10 p.c.			Ivory, dis. 27½ to 40 p.c.		
Bird Cage, per doz.....	0 50	1 10	NAIL SETS.			SAD IRONS.			Strawberry box tacks, bulk.....		
Clothes Line, per doz.....	0 27	0 63	Square round, and octagon,			Mrs. Potts, per set.....			Cheese-box tacks, blue d.....		
Harness, per doz.....	0 72	0 88	per gross.....			N. P., per set.....			Trunk tacks, black and tinned.....		
Hat and Coat, per gross.....	1 00	3 00	Diamond.....			SAND AND EMERY PAPER.			Carpet tacks, blue d and tinned.....		
Chandelier, per doz.....	0 50	1 00	12 00 15 00			Dominion Flint Paper, 47½ per cent.			(in kegs).....		
Wrought Iron.			NETTING.			B & A. sand, 49 and 2½ per cent.			Cut tacks, blue d, in dozens only.....		
Wrought Hooks and Staples, Can., dis.			Poultry, 50 and 5 per cent. for McMullen's.			Emery, 40 per cent.			Swedes, cut tacks, blue d and tinned—		
47½ per cent.			OIL.			SASH CORD.			In bulk.....		
Wire.			Canada refined (Toronto).....			Per lb.....			In dozens.....		
Hat and Coat, discount 60 per cent.			Sarnia Water White.....			SASH WEIGHTS.			Swedes, upholsterers', bu k.....		
Belt, per 1,000.....	0 6	0 70	Prime Water.....			Sectional, per 100 lbs.....			brush, blue d and tinned, bulk.....		
Screw, bright, dis. 65 and 10 per cent.			American w. w.....			Solid.....			gimp, blue d tinned & japanned.....		
HORSE NAILS.			Pratt's Astral.....			SAWS.			Zinc tacks.....		
"C" brand 50 p.c. dis.			OILERS.			Hand, Diaston's, dis. 12½ to 15 p.c.			Leather carpet tacks.....		
"M" brand 50 p.c.			McClary's Model galvan. oil			S. & D., 40 per cent.			Copper tacks.....		
"P. B." dis. 50 p.c.			can, with pump, 5 gal.,			Crosscut, Diaston's, per ft.....			Copper nails.....		
Acadian, 50 and 20 p.c., countersunk head.			per doz.....			S. & D., dis. 35 p.c. on Nos. 2 and 3.			Trunk nails, black and tinned.....		
HORSE SHOES.			Zinc and tin, dis. 50, 50 and 10.			Hack, complete, each.....			Clout nails, blue d and tinned.....		
Iron Shoes.			Copper, per doz.....			frame only.....			Chair nails.....		
Light, medium, and heavy.....			Brass.....			SAW SETS.			Cigar box nails.....		
Snow shoes.....			Malleable, dis. 25 per cent.			"Lin'oln," per doz.....			Patent brads.....		
Steel Shoes.....			Galvanized, per doz.....			Gurney Scales, 51 p.c.			Fine finishing.....		
Light, all sizes.....			PAILS.			B. S. & M. Scales, 50 p.c.			Picture frame points.....		
Featherweight.....			PICKS.			Champion, 60 per cent.			Lining tacks, in papers.....		
Toe weight (steel).....			Porcelain head, per gross.....			Fairbanks Standard, 45 p.c.			"solid heads, in bulk.....		
If shipped from factory, Montreal, 10c. per			Glass head.....			Dominion, 69 p.c.			Saddles nails in papers.....		
leg less.			PICTURE NAILS.			Richelieu, 60 p.c.			Tufting, buttons, 22 line, in dozens only.....		
ICE PICKS.			Forbes Patent Die stocks.—Curtis & Curtis,			Chatillon Spring Balances, 75 p.c.			Tine capped trunk nails.....		
Star, per doz.....			Mrs Bridgeport, Conn.			SCREENS.			Zinc glazier's points.....		
KETTLES.			No. 31 Hand Machine, range ¼ to			Door patent, per doz.....			Double pointed tacks.....		
Brass spun, 7½ p.c. dis. off new list.			2 in. R. & L.....			Wind, w, per doz.....			Tape Lines.		
Copper, per 10.....			No. 38 Hand Machine, range 1½			Sargent's, per doz.....			English, ass skin, per doz.....		
American, 60 and 10 to 65 and 5 p.c.			to 4.....			SCREW DRIVERS.			English, Patent Leather.....		
KEYS.			No. 56 Hand Machine, range 2½			SCREWS.			Chesterman's each.....		
Lock, Can., dis., 50 p.c.			to 6.....			Wood, F. H., iron and steel, 82½ and 5 p.c.			steel, each.....		
Cabinet, trunk, and padlock,			PLANES.			Wood R. H., "dis. 75 and 5 p.c.			THERMOMETERS.		
Am. per gross.....			Wood, bench, Canadian dis. 55 per cent.			Wood, R. H., "dis. 67½ and 5 p.c.			Tin case and dairy, dis. 75 to 75 and 10 p.c.		
KNOBS.			American dis. 55.			F. H., brass, dis. 75 and 5 p.c.			TINWARE.		
Door, japanned and N. P., per			Wood, fancy Canadian or American, 37½			Wood, R. H., "dis. 67½ and 5 p.c.			Stamped, dis. Assn. list, 80 per cent.		
doz.....			Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.			F. H., bronze, dis. 67½ and 5 p.c.			Japanned, prices on application.		
Bronze, Berlin, per doz.....			miscellaneous, dis. 25 to 37½ per cent.			K. H., "dis. 62½ and 5 p.c.			Pierced, prices on application.		
Bronze Genuine, per doz.....			Bailey's Victor, 25 per cent.			Drive Screws, 82½ and 5 per cent.			TRANSOM LIFTERS.		
Shutter, porcelain, F. & L.			PLANE IRONS.			Bench, wood, per doz.....			Payson's per doz.....		
screw, per gross.....			English, per doz.....			iron, ".....			TRAPS. (Steel.)		
KNIVES.			PLIERS AND NIPPERS.			Discount, per doz. net.....			Game, Newhouse, dis. 40 p.c.		
Clau s. bread, cake, and paring knives, \$7 00			Button's Genuine, per doz pairs, dis. 37½			Canadian, dis. 51 p.c.			Game, H. & N., F. S. & W., 65 p.c.		
doz. sets net, to 10 per cent.			40 p.c.			SCYTHES.			Game, steel, 72½, 75 p.c.		
Christie, bread, cake, and paring knives, \$7 00			Mutton's Imitation, per doz.....			SCYTHE SNATHS.			TROWELS.		
doz. sets, with 10 p.c. off.			German, per doz.....			Canadian, dis. 51 p.c.			Disston's, discount 10 per cent.		
Hay knives, spear point, L. or T handle, 60			PULLEYS.			Seymour's, dis. 50 and 10 p.c.			Brade's.....		
10 and 5 per cent.			Hothouse, per doz.....			Heinisch, dis. 50 and 10 p.c.			S. & D., discount 35 per cent.		
Lightning, per doz.....			Axle.....			Claus, full nickel, 50 and 10 p.c.			TWINES.		
Heath's, \$7.75 net.			Screw.....			japanned handles, 67½ p.c. off.			Bag, Russian, per lb.....		
LANTERNS.			Awning.....			Seymour or Heinisch tailor shears, 15 p.c.			Wrapping, mottled, per pack.....		
Cold Blast, per doz.....			PUMPS.			SHOVELS AND SPADES.			Wrapping, cotton, per lb.....		
LEMON SQUEEZERS.			Canadian cistern.....			Canadian, dis. 40 and 15 per cent.			Mattress, per lb.....		
Porcelain lined.....			Canadian pitcher spout.....			SNAPS.			Staging.....		
Galvanize.....			PUNCHES.			Harness, German, dis. 35 to 37½ p.c.			Broom.....		
King, wood.....			Saddlers', per doz.....			Acme.....			Hand, per doz.....		
King, glass.....			Conductors.....			Lock, Andrews.....			Bench, parallel, each.....		
All glass.....			Tinners' solid, per set.....			SOLDERING IRONS.			Coach, each.....		
LINES.			hollow, per inch.....			2 lb., per lb.....			Peter Wright's, per lb.....		
Fish, per gross.....			RAKES.			3 lb., ".....			Pipe, each.....		
Chalk.....			Cast steel and malleable Canadian, list dis.			WROUGHT SPIKES.			Saw, per doz.....		
LOCKS.			61, 10 and 5 p.c. revised list.			Discount, 35 to 40 per cent.			WIRE.		
Canadian, dis. 50 p.c.			RASPS AND HORSE RASPS.			IRON, per doz.....			Brass and copper wire, 10 per cent. advance		
Russell & Erwin, per doz.....			New Nicholson horse rasp, discount 60 p.c.			Steel, dis. 7½ per cent., revised list.			on the list		
Cabinet.			Globe File Co.'s rasps, 60 and 10 to 70 p.c.			Try and bevel, dis. 51 to 52½ p.c.			Smooth Steel Wire, base, \$2.80 f.o.b. factory		
Eagle, dis. 30 p.c.			Heller's Horse rasps, 50 to 50 and 5 p.c.			STAPLES.			points. List of extras: Nos. 2 to 5 ad-		
Padlock.			RAZORS.			Galvanized.....			vance 7c. per 100 lb.—Nos. 6 to 9, base—		
English and Am., per doz.....			Geo. Butler & Co.'s.....			Bright.....			No. 10, advance 7c.—No. 11, 14c.—No. 12,		
Scandinavian.....			Bokers.....			STOCKS AND DIES.			20c.—No. 13, 35c.—No. 14, 47c.—No. 15,		
Eagle, dis. 15 to 17½ p.c.			Wade & Butchers.....			American dis. 25 p.c.			60c.—No. 16, 75c. Extras net per 100 lb.		
MACHINE SCREWS.			Arbenz's.....			STONE.			Coppered wire, 60c.—tinned wire, 82c.		
Iron and Brass.			Theile & Quack's.....			Per					

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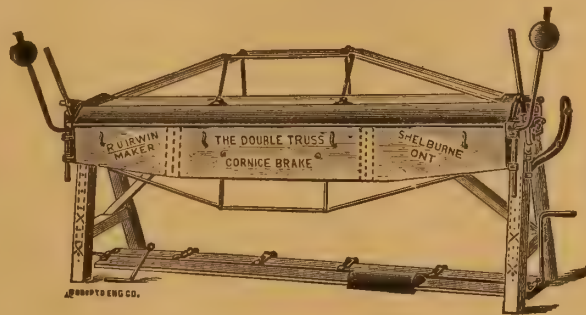
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VOL. XI.

MONTREAL AND TORONTO, MAY 6, 1899.

NO. 18



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GENUINE MAGNOLIA METAL is made up
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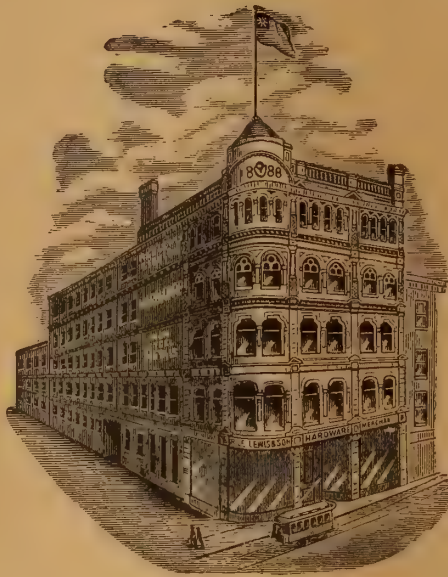
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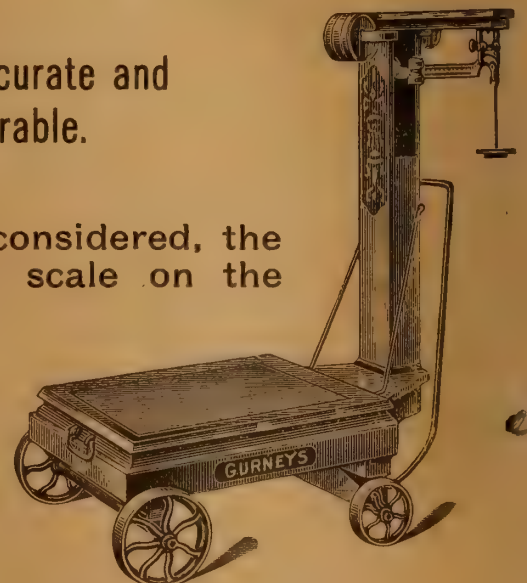
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Important Decision relating to the

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"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. O. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

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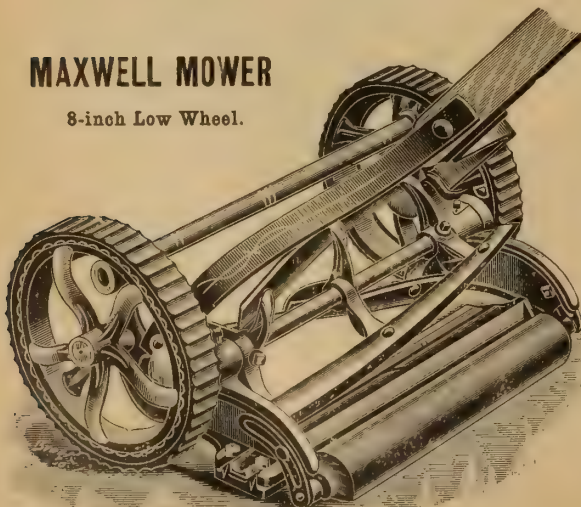
Steel Frame



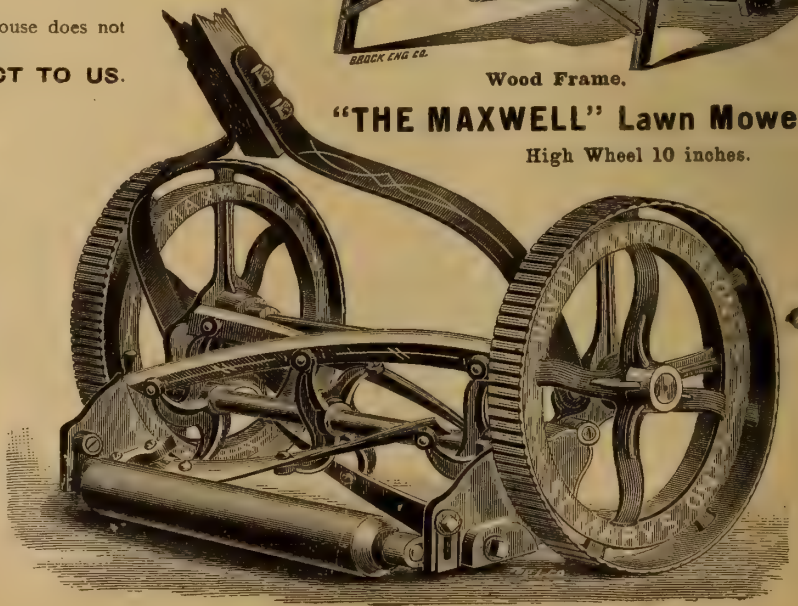
Wood Frame.

MAXWELL MOWER

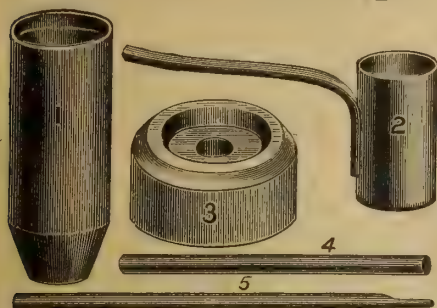
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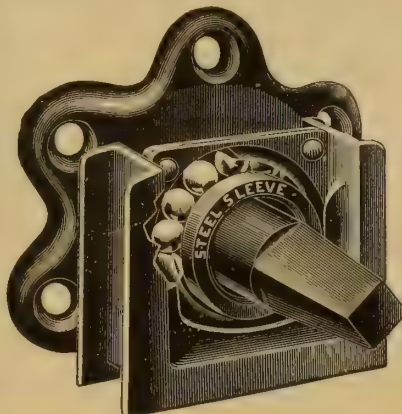
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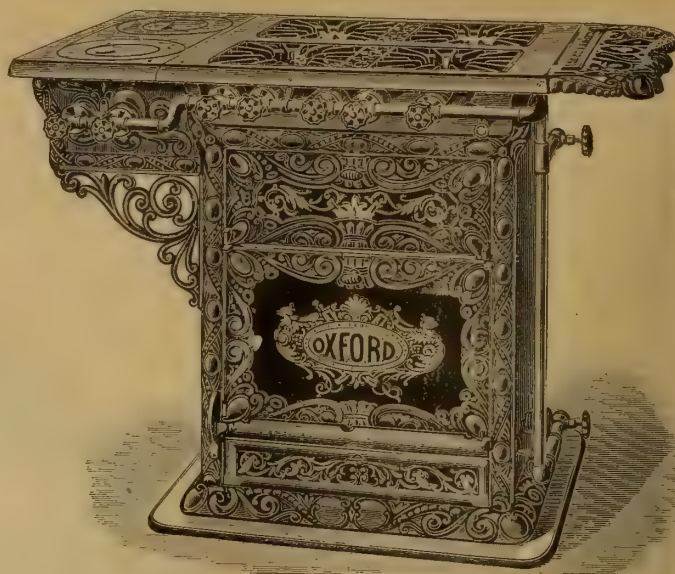
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Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

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96 x 30	52	73	84 “

This is the **LIGHTEST IRON MADE.**

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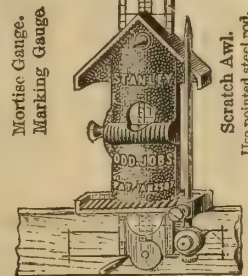
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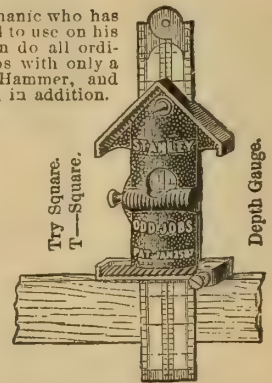
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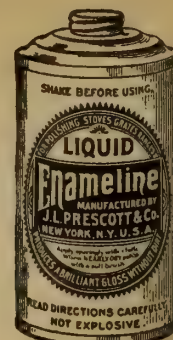
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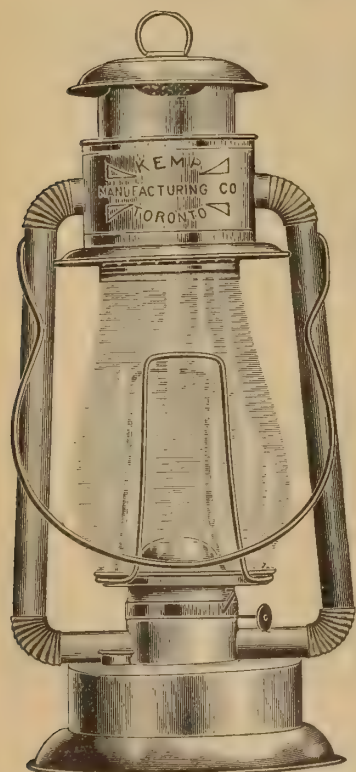


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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
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TIN STILL ADVANCING.

LAST week, our regular market reports noted decided strength in tin on outside markets. Since then, the advancing tendency of the metal has continued, and the changes, compared with eight days ago, are even more striking than those noted last week.

In London on May 2, spot tin was £1 7s. 6d. above where it stood the previous week, while three months' tin had advanced £1 5s. At Singapore, according to cables on the same day, the rise compared with the previous week was still greater. Singapore quotations on May 2 were £120 15s. c.i.f., an advance of £4 15s. At New York, both Straits and Lamb and Flag have again advanced 25c. on last week's

level to \$25.80 and \$26.50, respectively, per 100 lb.

Since January 1, Straits tin at London has fluctuated between £119 10s. the high price, and £88 5s. the low price. At New York, in the same interval, the high price has been \$26.20, and the low price \$19.70.

The visible supply of tin on April 30 was 19,504 tons, against 20,642 tons on March 31 this year, and 26,534 tons on April 30, 1898.

THE UPWARD TENDENCY IN IRON PRICES.

IRON values at several important outside points have been giving indications of preparation for another upward move, and the circumstances are causing some speculation as to when top prices will finally be reached.

The advance since the movement began is certainly remarkable, averaging all the way from 50 to 100 per cent. The following table showing comparisons between 1899 and 1898 makes this clear at a glance:

	1899.			1898.		
	£	s.	d.	£	s.	d.
Scotch Warrants.....	3	3	7	2	6	4
Middlesboro No. 3....	2	14	1½	2	0	1½
Lead, soft Spanish....	14	2	6	14	6	3
Spelter, G.M.B.....	28	12	6	19	2	6
Straits tin, spot.....	117	7	6	65	11	3
Copper, G.M.B.....	76	5		52	1	3
Silver.....	28	5		26	4	4
N.Y. pig iron warrants.	\$11	0		\$	6	75
No. 1 foundry, Pittsburg.	16	00		10	50	
Bessemer ".....	15	2		10	10	
Steel billets ".....	26	00		15	00	
Sheet steel bars ".....	26	25		17	40	
Lead, desilverized ".....	4	49		3	70	
Spelter, domestic ".....	6	85		4	25	
Straits tin, spot.....	25	8		14	75	
Copper, lake ingot.....	19	30		12	45	
Tinplates, J. B. grade						
coke, 100 lb.....	3	95		3	75	
Antimony, Cookson's.....	11	00		9	00	
Antimony, Hallett's.....	10	00		8	50	

Instances of the excited condition of values have been numerous since April 26. In that time Scotch warrants have gone up 5s. to 64s. 3d., and No. 3 Middlesboro iron 4s. 7½d., and both lines have dis-

played marked excitement, frequently fluctuating over the full shilling between the opening and close of a day, their record on May 2 being a good instance in this respect.

On this side the Atlantic, advances of 50c. per ton on old rails and \$1 in No. 1 wrought scrap iron at New York are certainly significant factors. At Pittsburg, while pig iron has not shown any alteration from a week ago, other important lines of allied material have advanced sharply. For instance, Bessemer pig is 10c. above where it was a week ago, billets 50c., sheet steel bars 75c., and muck bars 75c. Advances of this kind are certain, if retained, to have an important bearing on more finished iron material.

INCIDENTAL COSTS.

It is the little things in business that require to be looked after. As the old proverb says, "Take care of the cents, and the dollars will take care of themselves."

In estimating the cost of an article for the purpose of fixing its selling price, it is necessary to calculate the incidentals, in order that nothing may be lost.

Too often the selling price of an article is placed at a figure which, it is believed, will meet the prevailing keen competition and at the same time yield a small profit. But, while the goods sell, the profit does not come, and the business, in consequence, is a losing, and not a paying, one.

The first cost and the freight are not the only factors entering into the cost of an article; and every factor that is not taken into account becomes a leakage, instead of a source of supply.

Labor, insurance, advertising, interest, rent, etc., are all factors in the cost of an article. Do not overlook them.

A MENACE TO CANADIAN-JAPANESE TRADE.

THE question regarding the anti-Japanese legislation of the Province of British Columbia, which is now occupying the attention of the British, Canadian, and Japanese Governments, is of commercial as well as of political importance.

Should the Dominion Government not disallow the bill, or be unable to induce the Provincial authorities to repeal it, the Japanese Government vows it will retaliate in a way that will affect Canadian goods entering that country.

It is this that gives the question its commercial signification.

At present, Japan is not an extensive purchaser of Canadian products. Last year it only took \$148,028 worth, against our purchases from her of \$1,439,354. The exports to Japan last year of goods the produce of Canada, not taking into account articles less than \$100 in value, were as follows:

EXPORTS TO JAPAN.

	Quantity.	Value.
Coal, tons.....	1,361	\$ 4,573
Salmon, smoked, lb.....	272,900	6,087
" canned, lb.....	2,692	166
" pickled, bbls.....	3,911	11,733
Planks and boards, M. feet ..	2,965	39,102
Horses.....	2	200
Butter, lb.....	2,900	576
Cheese, lb.....	6,845	1,006
Bicycles.....	8	394
Household effects.....	....	300
Machinery.....	....	150
Whiskey, gals.....	135	394
Sugar, lb.....	2,100,401	78,095
Cigars and cigarettes, lb.....	9,932	4,670
Moldings, trimmings and other housefurnishings.....	....	221
Other manufactures of wood.....	....	100

Except in the items of coal, household effects and cigars and cigarettes, the above table shows an all-round increase compared with the previous year. The total exports of 1898 exceeded those of 1897 by \$7,000, or over 5 per cent. There was a gain of \$5,000 in smoked salmon, while of canned and pickled salmon there were none in 1897. Planks and boards were another clean gain, although there were masts, spars and lumber to the amount of \$1,367 in the returns of 1897 that are marked by their absence in last year's report. Butter increased from 30 to 2,900 lb. and cheese from 5,513 lb. to 6,845 lb. But cheese is not a popular food with the Japanese, and it will be necessary to cultivate a taste in them before Canada

can hope to do much of a trade with them in that article. At present, the flavor of cheese is repulsive to them.

We sent five bicycles more than in 1897, and 56 gallons more of whiskey. Sugar was 1,872,562 lb. in 1897. The sugar, which is the product of the British Columbia refineries, is credited with being the best imported into Japan and commands the highest price.

The decline in coal was \$6 694, in household effects \$1,400, and in cigars and cigarettes \$5,044.

Compared with our total export trade, that to Japan is only a little over 1-10 of 1 per cent., an insignificant proportion, indeed. But should we value the Japan trade by its present proportions? We scarcely think so. There are possibilities, and good possibilities of its expansion, and these should not be overlooked in the process of appraising its value.

Japan is often called the Great Britain of the Orient, and this appellation is as applicable in a commercial as in a political sense.

In 1897 the Dominion Government considered the possibilities of the Japanese trade of sufficient importance to send a special commissioner to that country to investigate it, and his report showed that there was in Japan a market for many Canadian staple products if intelligent efforts were only made to push them. The increases that were made in 1898 in the exports of salmon, planks and boards, butter, sugar, etc., rather corroborate Commissioner Anderson's conclusions.

But legislation specially aimed against citizens of Japan can scarcely be said to be conducive to the expansion of our commercial relations with that country.

British Columbia stands to lose the most should retaliatory legislation be inaugurated by Japan, for the salmon, the sugar, the coal and the lumber exported to the latter country are the product of that Province, but what injures British Columbia directly injures the Dominion indirectly.

It is to be hoped the Government of the Pacific Province will have the good sense to repeal the obnoxious legislation as soon as possible.

The population of Japan, exclusive of

that of Formosa (2,000,000) and Pescadores (45,000), is about 42,000,000, and the imports of the country in 1897 were £21,930,000.

In 1894, a treaty was concluded between Great Britain and Japan. This treaty acknowledged the right of the Japanese to frame their own Customs policy, English jurisdiction to be abolished at the end of five years. In return, however, Japan agreed to throw all the country open to British traders, instead of only the treaty ports, as soon as the foreign jurisdiction was abolished. Canada declined to accede to this treaty, and consequently, is exempt from its provisions.

A lamp chimney combination has been formed, but the heat of competition would soon crack it.

TO STOP FALSE ADVERTISING.

A BILL, somewhat unique on this side of the Atlantic, is before the Minnesota Legislature. "An Act to Prohibit False Advertising" is the title of the measure.

The first section, stripped of its legal phraseology, makes it a misdemeanor to falsely advertise the value, quality, or the manner or source of purchase or the possession of awards, prizes or distinctions; or the motive or purpose of a sale which are untrue or calculated to mislead. The second section makes it a misdemeanor for a person or firm to advertise by methods untrue or calculated to mislead and divert trade from and injure a competitor. The bill has the support of the business men of the State.

A law similar to that now before the Minnesota Legislature is in force in Germany, and prosecutions taken under it have been successful.

A lying advertisement is worse than an oral lie as a rule, for it not only goes out to a larger constituency, but it has the power to do a great deal more harm.

The purpose of the wantonly lying advertisement is to deceive the buyers whom it is designed to entrap, and any legislation which has for its object the prohibiting of such advertisements is entitled to the sympathy of every honest business man.

THE RAILWAYS MUST BE CONTROLLED.

A BILL of more than usual interest to business men was introduced in the Canadian House of Commons on Wednesday. It calls for the appointment of a permanent Board of Railway Commissioners, clothed with full power to enforce the provisions of the Railway Act "and to prescribe and enforce the observance of such regulations as may be necessary in the public interest."

Outside those connected with the railways, it would be difficult to find a man in Canada who will deny that the public interest demands such a board.

We have, in Canada, over 16,000 miles of railway, a good percentage of the money for the construction of which has come out of the pockets of the people of this country. Yet, the latter have practically no voice in regulating what their money has helped to create.

There is a Railway Act, and there is a Railway Committee of the Privy Council, whose special duty is to enforce the provisions of the Railway Act. But the one is little better than a dead-letter because of the failure of the other to perform its duty.

The two great railway systems of the country are powerful. With every year their power is increasing, until to-day they own both political parties soul and body, while those who ship and those who travel are practically at their mercy.

Once and a while there is a cutting of rates, but, as a rule, the two systems are as one. In other words, they do not compete. And new lines that have been heavily bonused to compete have, ere the rust has been rubbed off the nails, been pulling with those with whom they were designed to pull against. Railroads are not like shopkeepers.

With whichever party is in power the railways are as one. The railways are so powerful that those in office fear to rub against them.

With the Railway Committee really a sub-committee of the Cabinet, it could scarcely be expected to be anything other than impotent. A stream can scarcely be purer than its source.

Of all the problems awaiting solution in Canada to-day, none are as difficult as that of railway control. The statutes that were de-

signed to give the Government a measure of control have really turned out to be as a wall round and about the railways preventing the public exercising that control.

Crippled and all as the present laws are, it is obvious an independent board of commissioners would be able to enforce them more efficiently than is possible under the present conditions.

Of course, no one believes that Mr. Rutherford's bill will become law just now. But it is only a question of time before some such a measure must prevail. The railways cannot forever control Parliament and the country. The conditions must eventually be the other way about. The public must control.

WILL GLASS ADVANCE?

Notwithstanding the arrival of some early stocking orders, there is still a scarcity of some sizes of glass.

Reports from Belgium and England indicate the probability of import orders coming in slowly this season. The chief cause of this is the strike in the coal mines of Belgium, which has retarded the output in that country.

As the demand from nearly all consuming countries has been unusually large this year the natural result of this reduction of output will be tardy deliveries of import orders.

As the stocks here are low, some jobbers are talking already of higher prices.

SCARCE GOODS.

Hardware jobbers in Canada are experiencing a great deal of difficulty in getting supplies of certain staple lines from the manufacturers.

This is particularly true of rakes, hoes, certain brands of forks, and green wire cloth, screen doors, screen windows, etc.

ST. JOHN'S WINTER PORT TRADE.

The statement of the winter port trade through the port of St. John shows a large increase over that of the season of 1897-98. Sixty-one steamers carried outward cargo valued at \$7,137,737, compared with 57 steamers of smaller tonnage and cargo value of \$4,838,768 in the preceding season. The tonnage of vessels outward was 32,206 tons greater in the season just closed. The

tonnage of freight outward was 23,109 tons greater and inward freight 1,795 tons greater.

The exports included 2,943,059 bushels grain, 10,488 head of live stock, 183,345 sacks of flour and oatmeal, 64,114 boxes cheese, 11,192 packages butter, 32,774 boxes cured meats, 54,767 bales hay, 10,894 tierces lard, 12,498 bbls. sugar, 8,655 b'ls. glucose, 105,096 maple blocks, 45,630 bales pulp, 12,332 cases eggs, 33,950 bags starch, and a very large lot of miscellaneous cargo.

This trade was carried on without delay or accident, so far as St. John was concerned, and affords another proof of the adaptability of St. John as a freight port for winter trade.

The total cargo value outward included \$3,208,114 represented by American produce in grain, live stock, cured and fresh meats, sugar, glucose, etc.

CAST HARDWARE AGAIN ADVANCES

The manufacturers of cast iron hardware in the United States are still advancing their prices.

This week the jobbers in Toronto have been notified by one of the manufacturers across the border, who probably does the largest export trade with Canada in this particular line, of a further advance of 10 per cent.

It was a few weeks ago that the previous advance was reported.

ENAMELED WARE AND TINNERS' GOODS HIGHER.

A few weeks ago **HARDWARE AND METAL** intimated to the trade that an advance in enameled ware would, in all probability, take place shortly. Dealers who did not take advantage of that hint will now have to pay an advance of 10 per cent. for some lines, particularly white ware.

There has been an advance of a like amount in tinnners' trimmings, except conductor pipe, troughs, pits, rivets, bolts, lead pipe, and tools.

Fire pails, stove pipes, sheet iron pans, fire shovels, "Acme" fry pans, and steel spiders are all higher.

WHITE LEAD MAY GO UP.

A meeting of the manufacturers of white lead will be held in Toronto on Monday, the 8th inst. As the margin of profit is said to be somewhat close, some grinders are talking of an advance of 12½c. per cwt.

SOME QUESTIONS ABOUT GASOLINE.

THE QUESTIONS.

THE following letter has been received from a correspondent signing himself "Inquirer," from London, Ontario, and has been submitted to the author of the serial article on gasoline that appeared in The Metal Worker in February, who has furnished the comments that are given below :

"I have been much interested in the series of articles that lately appeared in your valuable journal relative to the subject of gasoline. I would like the author of those articles, or some other person who is qualified, to give me some additional information on gasoline, and also on common kerosene and fuel oil. It is said that, if a vessel be filled with gasoline and left standing in either a hot or cold room, it will, without apparent cause, sometimes expand and overflow. I have heard of it acting in this way in a lamp, to which was attached a burner commonly advertised to do away with the necessity for a chimney. This burner consists of a piece $\frac{3}{8}$ x 4 inch brass tubing, with cap-screw at one end to attach to collar of lamp and generator at the other end. The gasoline is conducted to the generator by several strands of candlewick. I inferred from what I was told that the action of the liquid would be the same whether the lamp was lit or not, and possibly the same whether the lamp was full or only partially full.

"In The Metal Worker articles, 'N.A.P.' said that one could boil gasoline on a red hot stove and there would not be any explosion. I presume he meant in a vessel having a vent. What would be the effect if this were done in a vessel having no vent? Does gasoline form in a vapor when not exposed to air? Does the air forced into plumbers' furnaces merely serve the purpose of forcing the liquid up to the generator, or is it also consumed? What is the cause of these furnaces sometimes exploding? What is the probable cause of common kerosene lamp explosions, and also through carelessness in lighting fires with kerosene? It is related that a man was killed in Detroit, Mich., by the explosion of a fuel oil oil tank while soldering a leak in it. What was the probable cause of that disaster? With respect to the explosion of the plumbers' furnace mentioned above, it occurred in this city, and under the following circumstances: It was being used by an electric lineman, and, the day being windy, he covered it with a barrel to prevent it from blowing out, and, in a short time after, it is said to have exploded. I have theories of my own with respect to these things, but I would like to see what

an authority has to say about them. I am not actuated by idle curiosity, and I trust, Mr. Editor, that, in the event of no other person enlightening me, you will undertake the task."

THE ANSWERS.

"The questions raised are indeed interesting. Without having an accurate knowledge of all the attendant circumstances connected with the accidents described it is extremely difficult to arrive at any definite conclusion as to the cause. Products of petroleum are materially influenced by atmospheric change and condition. As to the question of expansion and overflow of gasoline from a vessel standing in a hot or cold room, this would never take place in a cold room. In a warm or hot room it might occur under abnormal conditions of fullness, but it is extremely doubtful if it would overflow in a liquid form under any circumstances. In a small room with doors and windows closed and passive atmosphere a vessel containing gasoline might stand for many hours with a hardly perceptible evaporation. If this room be open and subject to draft the gasoline would entirely disappear in a few hours. If there is no circulation of atmosphere, ordinary degrees of heat, such as are common in rooms, will not cause gasoline to evaporate from a can or other receptacle to any marked degree, and certainly not a dangerous point. I would, however, not advise anybody to allow a can of gasoline to remain uncorked, as there are very few rooms or storage places sufficiently tight to prevent drafts. The lamp described by your correspondent I have never seen, although from the particulars it must resemble one that I inspected about a year ago, but which had no wick. As mentioned in the original article, a can partly or wholly filled with gasoline may be lighted at the vent and allowed to burn for any length of time without causing any overflow of fluid, but with a slight increase of flame due to the quickened evaporation caused by the heating of the vapor feeding the flame. This condition would not be changed by the addition of a tube and wick. It would make no difference whether the lamp be full or only partially so. There would certainly be no overflow under ordinary temperatures and conditions, whether the lamp be lighted or not.

"Even in the case of boiling gasoline in a can with vent lighted there would be no overflow, but simply an increase in size of of flame of perhaps 4 or 5 inches in height caused by the extreme vaporization. Of course, the can could not be full during this operation or it would boil over. In reply to the questions regarding boiling gasoline, it was, of course, meant that the vessel must

have a vent. Water could not be boiled in a can without vent very long without exploding the can. This is the reason that all boilers have safety valves.

"Replying to other questions raised, viz.:

"Does gasoline form a vapor when not exposed to air?

"It does, under certain conditions. If a can is partly filled and sealed, the space in that can not occupied by fluid gasoline is filled with vapor.

"Does the air forced into the plumbers' furnaces merely serve the purpose of forcing the liquid up to the generator, or is it also consumed?

"The prime purpose of the air pressure is to force the gasoline to the generator and produce a blast flame which results the same as a blow pipe on a large scale, being intensely hot. The air is consumed and this is proved to the layman by the necessity for replenishing the air pressure at intervals. If the air were not consumed it would not be necessary to pump additional air into the reservoir at frequent periods.

"What is the cause of these furnaces sometimes exploding?

"In the first place, they are not built strongly enough to withstand much pressure, and when, for instance, the air pressure is applied outdoors in the winter and the furnace is taken into a warm room the already full reservoir increases its pressure many fold, and something must give way. This is plainly illustrated by the explosion of bicycle tires. Pump a tire hard in a cold atmosphere and put your wheel next to a stove or in the bright sun and you will see this brought unfortunately to your notice. So far as gasoline being the cause of such accidents, it is not so, and the explosion would occur if the reservoir were filled with any other fluid. In the case described the explosion was undoubtedly caused by the rapid heating of the small amount of air contained in the barrel, thus causing abnormal expansion of the compressed air in the furnace reservoir. If the barrel had been open at the top it probably would not have occurred.

"What is the probable cause of common

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kerosene lamp explosions and also through carelessness in lighting fires with kerosene?

"I have investigated a large number of so-called 'lamp explosions' and I never came across one where a lamp exploded when standing 'right side up.' They had always either been carelessly tipped over or filled with cold oil to the brim and brought into a warm room.

"It has not perhaps been observed by the ordinary citizen that a large percentage of kerosene fires (so called explosions) occur in the winter. The most common cause of these is the filling of lamps to the brim with cold oil taken from a can or barrel which may be outdoors in a temperature from freezing to 20 deg. below zero and bring it into a room at 70 deg. While burning, the temperature of the oil is raised to such an extent that it must overflow or burst the lamp. If the lamp bowl be strong it will probably overflow; if not, it will burst, and then there is a lively time. Glass lamps are an abomination and should never be used. They are cheaply made and will crack and burst if conditions are not exactly normal. As to lighting fires with kerosene, such a careless use of oil should never be permitted, but if it is to be done do not pour from the can while the fire is burning. Apply your oil to the wood before lighting the fire and use it sparingly.

"Regarding the explosion of a fuel tank in Detroit, by which a man who was soldering a leak in it was killed, I would point out that a tank which has contained any kind of oil is impregnated with gas or fumes from the oil which are explosive, and if a light be applied inside there will be an explosion. A man should never be permitted to enter a tank of this description with a light except it be a covered electric light. If repairs are made in the middle of the day sufficient supply of light will be obtained through the manhole.

"I hope your correspondent and all others interested will be governed in the handling of oil and gasoline by the points given, and if there are any further questions raised I will be pleased to answer them."—The Metal Worker.

THE MAN WHO SUCCEEDS.

I saw two men playing billiards, says a writer in Brains. One played to attract attention by the spectators; the other made no fancy shot, but pulled out every count in sight. He won the game. I witnessed a game of football. One fellow on the losing side was a gallus chap. He waved his hands gracefully, and when his team was applauded he bowed and saluted the grand stand. At the end of the game I heard that they would have won but for the poor play-

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ing of the gallus chap. I know a salesman who attracts many girls to the store where he works. They love to stand and talk with him—he is so witty. They listen and giggle. The proprietor tells me he is the poorest clerk in the store. I notice, wherever I go, that the fellow who is bent on attracting the most attention to himself is not the fellow who succeeds. I notice the fellow who has wood to saw and saws it is always in demand.

INGENIOUS ADVERTISING SCHEME.

Open all your letters, says a contemporary, by cutting one end of the envelope so carefully with a sharp pair of scissors that no rough edges are visible. Save all these envelopes. In the course of a month you will have quite a lot. Give them to a clerk, send him out in a wagon or on a bicycle, with instructions to drop one in the middle of the road every few hundred yards or so. With his five hundred envelopes he can cover a great deal of country.

The effect will be so magical that you will at once feel the effects of it. Nobody can pass an envelope that looks like a letter without stopping to see whose it is, who dropped it, and all about it; and, when it is thus picked up and the grocer's address and business carefully read, an impression is made on the reader's mind that is very hard to forget.

A WELL-EQUIPPED STORE.

MISENER BROS., grocers, provisioners and hardware dealers, Brantford, Ont., have moved into new premises. The building is three and a half storeys high, and has a 41-foot frontage, containing seven plate glass windows. One side of the main store is devoted to hardware, the other to groceries. The provision store is separated from the others by an archway. The counter in the provision store is a slab of marble, the bottom of the window is also of marble. A fountain has been arranged here to spray fruits and vegetables, and the firm intend putting in an aquarium with gold fish, etc. The counters of the main store are of quartered oak and the ceiling is metal. One feature in the grocery department is an innovation in Brantford, that is the plan Misener Bros. have adopted for handling their sugars, rice, oatmeal, etc. Instead of having to fill their bags out of barrels or boxes, the goods are sent to the second floor and placed in bins. Chutes leading to the first floor have been arranged so that any quantity of goods desired can be drawn out in a short space of time.

On Thursday, Friday and Saturday last week Misener Bros. held an opening reception. An orchestra pleased the ear and light refreshments the palates of all patrons who visited the store on those days.

A WINDOW WITH TIMELY DISPLAYS

A B. NOBLE, hardware merchant, St. Catharines, Ont., carries the palm for window-dressing novelties in his city, and in all cases finds these not only attractive displays but drawing cards for the lines shown, in the increasing sales, as well as the widespread advertisement derived.

Just prior to the Christmas holidays a very neat display in hockey sticks and skates was made, the attractive part of which was two figures dressed in hockey costume and placed upon a large mirror representing ice, the edges having salt banked to represent snow. The figures were so placed as to represent a fierce attack on goal, as well as a brave defence. In this case Mr. Noble claims it was almost impossible to keep a stock of sticks, pucks or skates, so great was the demand.

A little later on, originality was again shown by having an axe and saw display. While the window was arranged with a full assortment of the above lines, the centre had a figure dressed as a boy hard at work sawing wood, with bucksaw and woodhorse complete. By a mechanical device the figure could be made to get down to work in proper style, while the slang inscription, "We are just sawing wood," spoke volumes.

At Easter, another surprise awaited the public in the form of an Easter egg five feet high, made of hoops and poultry netting and covered with cotton batting, and was shown as slightly open, while within was a large doll dressed as an angel, bearing "Easter Greeting." The window was tastefully decorated with seasonable goods.

With the advent of spring cleaning and house-decorating, a miniature verandah, with steps at either end, was installed. The trelliswork of the verandah was made of framework and wall paper, making a very good imitation of trelliswork. The latter work was interwoven or hung with brushes, brooms, feather dusters, in various styles and forms, while the steps already mentioned were nicely fixed up with mixed paints, furniture and stove polishes, etc.

Heralding springtime and the fishing fever, contagious to all, from the small boy with his bent pin for a hook to the up-to-date sport with his "complete kit," the present and latest novelty possesses an irresistible charm. This is composed of an enameled bath half full of water, in which some minnows are swimming around, while, in the corner, the "ubiquitous" small boy, with his "gad" and lobster tin with bait, is trying for "bites." The edges and window are covered with green sod and on the same are nicely arranged fishing tackle of

all descriptions. T. J. Norton, one of the clerks, is the originator of these novelties, and deserves praise for these ingenious devices, and, no doubt, is thereby not only making his services of more value to his employer, but is cultivating a talent that may be of inestimable value to him in future years. And his example is one that many

of our young hardware clerks would do well to follow. S. McK.

The Macleod Gazette gives currency to a report that James J. Hill, of the Great Northern railway, proposes to run a branch of that line from Macleod to the international boundary, following the route for which the C. & E. secured a charter.

Bicycles

with drop-forged connections are strongest.

IVER JOHNSON CYCLES

—HAVE—

Drop-Forged Connections Throughout.

MODELS LISTING AT \$40—\$50—\$60—\$75.

HONEST CYCLES AT HONEST PRICES.

All manufacturers admit the superiority of drop-forgings, but they think them too expensive. Nothing is TOO GOOD for . . .

IVER JOHNSON CYCLES.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

Gilbertson's Galvanized Sheets

PATENT

COMET
BRAND

FLATTENED

are suitable for all kinds of Galvanized work demanding uniform quality; being made of superior Siemens Steel, they will double seam either way of grain, are smooth, soft, and well galvanized, every sheet being carefully selected; weight and count of sheets per case fully equal to the best-known brands imported, and cost less.

GILBERTSON'S are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, thus enabling them to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

"GILBERTSON'S" SIEMENS-MARTIN TINPLATES

are soft, extra well coated, noted for deep stamping qualities, and for canners of fruits, meats and fish have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Pontardawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S TERNEPLATES, "Regina" brand.

IMITATION RUSSIA SHEETS—will not crack or scale. Pickled, cold rolled and close annealed.

SIEMENS-MARTIN STEEL SHEETS, close annealed, close annealed and cold rolled (flat and free from buckles), also pickled.

BLACK CEILING PLATES, "Comet" brand. Pickled, cold rolled and close annealed.

BLACK TAGGER PLATES. Pickled and close annealed.

Supplies carried by all wholesale jobbers. In ordering please mention brands.

ALEXANDER GIBB

Agent—

. . . . 22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

Wholesale Only

37-39 Front Street West, **TORONTO**

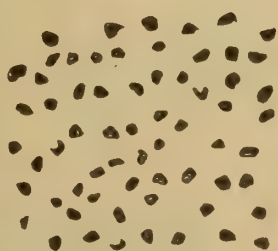
THE AMERICAN POWDER MILLS

CELEBRATED

GUNPOWDER

UNSURPASSED BY SIMILAR GRADES OF
ANY MANUFACTURE.

"DEAD SHOT"



Dead Shot, FG.



Dead Shot, FFG.

A most remarkably and universally popular Brand for general *FIELD* and *TRAP* shooting. Has for thirty years steadily grown in favor in the United States. *STRONG, UNIFORM*, can be *USED ALL DAY* without cleaning the gun: being a *MOIST BURNING* Powder, it is, for every day use, the sportsman's favorite. *DEAD SHOT* is packed in air-tight metal packages, each containing twenty-five pounds.

AGENTS FOR CANADA.

Loaded Shells, Empty Shells, Metallic Cartridges

(Both American and Canadian Manufacture).

JUST TO HAND—Large stock Pieper's Celebrated B. L. Guns, 10, 12, 16 and 20 Gauge.

PRIMERS.



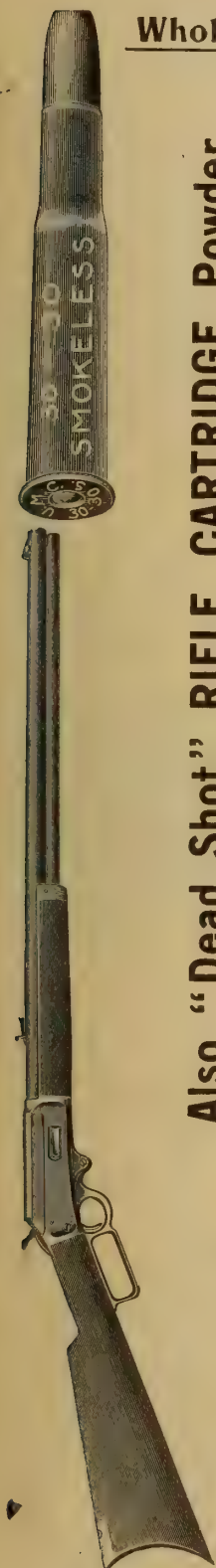
"IDEAL" BENCH CLOSERS, 10, 12 Gauge

CAPS.



RIFLES.

Stevens Favorite, 22, 25, 32, 44 Cal.



RIFLES.

Winchester or Marlin.

Also "Dead Shot" RIFLE CARTRIDGE Powder

and Schultze (English make) Best Smokeless Powder.

H. S. Howland, Sons & Co., Toronto.

GRAHAM WIRE AND CUT NAILS ARE THE BEST.

OUR PRICES ARE RIGHT.

BUSINESS PRINCIPLES.

WHETHER in business or out of it a man should endeavor to keep his reputation pure and spotless, says a writer in Michigan Tradesman. Every questionable action in a man's life is recorded by commercial agencies, from the time he enters business. Nothing hampers a man more than a lack of firmness or uprightness in his dealings. On the other hand, honesty and trustworthiness insure an unlimited credit, in time. Trickiness and unscrupulousness render a man an object of aversion to all creditors. Credit is extended by merchants and bankers, according to their confidence in one. Therefore it is advisable to pay bills as promptly as possible.

Another requisite which cannot be ignored in mounting the ladder to success is the assistance and beneficent influence of hope. As long as a man has hope in the efficacy of his efforts, he is bound to work more conscientiously and cheerfully and accomplish better results. Work thus engenders an enthusiastic feeling which makes its performance a pleasure instead of drudgery, for work without enthusiasm is like a harp without strings. Therefore, the business man should encourage hopefulness and optimism. As someone has well said, "A widespreading, hopeful disposition is the best umbrella in this vale of tears."

There is one thing that too few men of business do, and that is consult with their life partner when deciding to start upon some new venture. The partner referred to in this case is a man's wife. Oftentimes the better half may not be competent to give valuable advice, but there are many cases in which she could give incalculable assistance if she were only appealed to for it. The writer has known of some remarkable instances where shipwreck could have been avoided if the wife's intuitive powers had been consulted. A woman may sometimes possess the capacity of viewing the subject from more sides than one. Besides, her opinion may be more unbiased and impartial, and her judgment cooler than that of a man who is apt at times to subordinate his common sense to his ambition.

It is a good plan, also, to foster and cultivate as many ideas as possible. Where it is impossible to originate ideas, the next best thing is to nourish and improve upon the ideas of others. Some men are inevitably more deficient in imagination than others; therefore, these are the very ones who must be content to experiment upon the ideas of others which have been highly successful. Indeed, to be able to select well among old things is almost equal to inventing new ones. There is no new thing under the sun, as Solomon says; all

things are improvements or variations of something old.

Although it is by no means recommended here that a merchant should take his business cares home with him, and carry them about as the pilgrim does his pack, nevertheless the problems of business life which are continually arising may be debated in the home circle as well as elsewhere.

It is also advisable to do all in your power to convince the public that business is in a thriving condition. Maintain good spirits, for bad news spreads like a prairie fire. When an opportunity is found to boom business do not neglect to do it. Look cheerful, be affable and ingratiating, look people in the face and work with a will. Nothing pleases people more than kind, considerate treatment.

It has been intimated that independence, although a valuable quality under some circumstances, is nothing but pigheadedness in business. Thus, enterprising merchants must keep this quality in abeyance, cater to customers' whims and humor them when consistent with self-respect. This poetic comparison may be made to refer to mercantile life: "The same law governing the sea applies to the great ocean of business; both are subject to ebb and flow, and if your transactions lack confidence, your business will be drifted on the quicksands of disaster. To avert this danger, have a trusty pilot at the helm and an experienced skipper on the lookout."


CHARCOAL IN PAPER BAGS.

The good housewife who, forty or fifty years ago, looked out in the street now and then so as to be sure and not miss the charcoal man when he came along, and who bought charcoal by the bushel or the barrel, to be carried in from the wagon and emptied in the cellar, would have been surprised to see, as she might now-a-days, charcoal sold in paper bags. The charcoal thus sold is a residue of the manufacture of wood alcohol, produced by the charring of hardwoods, beech, and maple in kilns. It is shipped in bulk in carloads from the region of production to the place of distribution, and there put into bags for sale.

This modern way of selling charcoal was introduced into Buffalo about eight years ago. Buffalo now buys 10,000 to 15,000 bags daily. Charcoal in paper bags has since been introduced in various other cities as far east as Boston. It has been sold in New York for about two years.

The paper bags are stout sacks of the same general proportions as an eighth-barrel flour sack, but a little larger and holding half a bushel of charcoal. The filled bags are tied around the neck. Charcoal in paper bags is sold in stores, like any other commodity.—New York Sun.

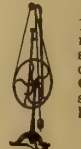
CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.



PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA



COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in very style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS.

McLusk, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application



Size,
3/8-inch.

**Cheapest
IN THE
WORLD.**
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.



The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited

IT PAYS TO BUY
THE BEST.



This Trade Mark is
on every Tag.

PLYMOUTH BINDER TWINE

IS PUREST
IS STRONGEST

IS EVENEST
IS LONGEST

Best and Most Economical.

PRUDENT PEOPLE PREFER "PLYMOUTH."

PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.

Standard Steel Toe Calks



WRITE
FOR
DISCOUNTS.



Sizes—No. 0 to 7, 1½ to 3 inches. Price \$1.00 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

Sizes—No. 0 to 5, 1½ to 2¾ inches. Price \$1.25 Per Box of 25 lbs.
in Bulk, or 24 lbs. in 4 lb. Packages.

JAMES PENDER & CO., Limited, - Saint John, N. B., Canada.

LUXFER PRISMS

Placed in windows echo the outside brightness to the very rear of your warehouse.

"Investment, not speculation," say
our thousand odd patrons.



EATON'S—WITH PRISMS



EATON'S—WITHOUT PRISMS

Your next door neighbor knows what
it will cost to light his store; why
don't you also?

Write for Descriptive Book.

The Luxfer Prism Company
Limited

58 Yonge St., Toronto.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE influence holders of warrant iron have exerted on the hematite pig iron trade during recent years in the northwest of England has acted so seriously against the interests of makers of hematite iron that a proposal has been set on foot with the object of bringing about an amalgamation between employers, so as not only to keep prices up to a reasonably high standard, but to prevent makers selling to merchants and speculators, except on shipment account or on the knowledge that the iron required was on local consumption account.

COPPER IS PRECARIOUS.

James Lewis & Son, Liverpool, report as follows on copper, under date of April 17: The position is at present a very precarious one, being dependent on the action of the American operators who have obtained control of the major portion of the stock. English consumption for the past three months shows a falling off of 22 per cent., and French consumption of 25 per cent. The only branch of the trade which is at all active is that of wire-drawing. Birmingham manufacturers have reduced their purchases to a minimum, and very little copper was sold there at the quarterly meeting last week. Several rolling mills are closed, as there is hardly any demand for sheets, and smelters are converting furnace material into standard. The manufacture of sulphate has almost ceased, and it is very doubtful if existing stocks will be disposed of before the close of the season.

The same authority also makes the following interesting statements: An important series of tests undertaken by a leading electrician in the United States to determine the relative conductivity of copper and aluminum, and their relative cost for the transmission of electric current, show that aluminum at 1s. 3d. per lb. is equal to copper at 7d. per lb.; the lightness of the former metal compensating for its lower conductivity; 10,000 horse-power of electrical current is being transmitted over an aluminum line in the United States, and an 80-mile high-voltage wire of aluminum is being erected. Aluminum at present costs 1s. 3d. per lb., and high conductivity copper 8¾d. per lb. The supply of raw material for the manufacture of aluminum is practically unlimited.

TINPLATES IN ENGLAND.

The quarterly meeting of the tinplate trade, held for many years at the Bell hotel, at Gloucester, and subsequently at Birmingham, is, for the present, in abeyance, but there was a good attendance of makers at Birmingham yesterday, and the Liverpool

and London buyers were generally represented. Prospects were regarded as better, but there was a great want of confidence in the future, mainly owing to the workmen being quite beyond control, and manufacturers not knowing from day to day what new conditions affecting the cost of manufacture may be imposed on them by the men. The usual quotations for ordinary cokes at Swansea are 11s. 3d. to 11s. 9d. per box.—Iron and Steel Trades Journal, April 15.

IMPROVED SHOWROOMS.

Considerable enlargements and improvements have been effected at the London showrooms of George Butler & Company, Limited, at 62 Holborn Viaduct. Not only have the showrooms been doubled in size, but commodious private offices have been added. The enlargements, of course, afford opportunities for a far more effective and comprehensive show of the firm's manufactures, among which, at the time of our visit, were some very fine samples of the table cutlery they are manufacturing for the New Great Central Railway Company. Customers of the firm will, too, be greatly interested in some beautiful medallion work, in solid silver, with which the firm are ornamenting razor cases, and possibly other goods. In design and execution, these medallions reach a high artistic value. Mr. A. H. Symonds, 71 Yonge street, Toronto, is the Canadian representative of Geo. Butler & Co.

DELAYS IN COLLECTIONS.

Warren Jeffries hits the bullseye in the very centre when treating of the subject of "Business Procrastination," remarks New Jersey Trade Review. He says that the distinctive difference to be noted between the active, pushing, successful man of business and the unsuccessful and discouraged man is frequently found in the simple matter of the improvement of time. The one seizes upon every opportunity as it is presented, and, acting promptly, profits by it; he is alert and his movements are rapid. The other, with perhaps as clear perception of the situation at the first fails to reach the goal in time simply from constitutional inertia or the bad habit of procrastination. Mr. Jeffries thinks that there is no man in business in whose management of affairs promptitude counts more than with the retailer. The consumer's wants are imperative. The retailer, to profit by supplying those wants, must act instantly. Is a new article asked for? It must be found and supplied quickly or else a competitor gets the advantage. Does

some event occur that can be turned to advantage in an advertising way? The opportunity must be seized upon instantly or the effect will be lost. Are discounts offered for prompt payment? Then the remittance must be despatched by the specified date, or else the coveted percentage is not secured. Are there accounts to collect? The bills must be presented at the time they are due and every reasonable effort put forth to secure their payment, or else loss from bad debts will be the ultimate penalty. Procrastination in collections costs large sums of money every year to retailers and to other merchants as well. First, it deprives them of the use of the money which would secure discounts on purchases, and, second, it helps the debtor to get into a position where he cannot be made to pay even by legal progress.

COAL OIL REGULATIONS.

THE Hon. W. S. Fielding, Minister of Finance, on Tuesday, announced, during his budget speech, that the Government had decided to modify the Customs regulations regarding coal oil.

"At present," he said, "all petroleum, whether Canadian or imported, must be barreled before being inspected. The packages must bear the inspection marks, and inspection fees must be paid, varying from one-fifth of a cent to one-half a cent per gallon, according to the size of the package. We propose to sweep away all these restrictions. Canadian oil will be inspected at the refineries, and imported oil at the port of entry, and, having been so inspected, may be removed or sold without restrictions as to packages. The inspection fees will be entirely abolished. The present law contains provisions for guaranteeing the safety of the oil. These will have to be adhered to and rigidly enforced. But, apart from what may be necessary in the interests of safety, our aim will be to allow the utmost freedom in the handling of the oil. My hon. friend the Minister of Inland Revenue will introduce immediately a bill to abolish all these restrictions to which I have referred. There is no doubt that a large part of the oil business will still be handled in barrels. The tank cars will come to large centres, where the oil will be stored in tanks, and thence distributed in barrels to different parts of the country. Wherever the conditions of the trade require that, well and good, but where they do not, we do not propose hereafter to compel the people to buy oil in barrels."

Melville Millar, who has been engaged in the hardware business in Peterboro' and Orillia, Ont., for 37 years, has sold out to Macnab Bros., of Orillia. Mr. Millar was appointed postmaster of Orillia about a year ago, and is now devoting his time to that office.

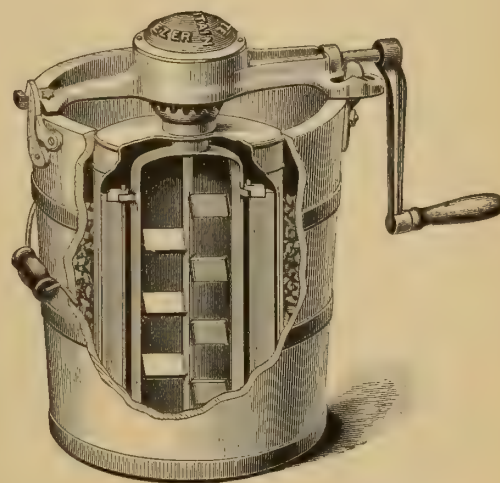
EVERY GOOD THING

PERTAINING TO

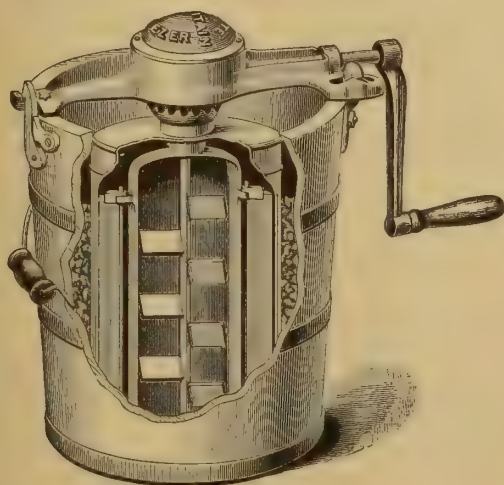
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N. H., U. S. A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL May 5, 1899.

HARDWARE.

THERE has been a good movement of trade in wholesale hardware circles here during the past week. No further changes in value of importance are noted, but all lines manifest a firm tendency, in sympathy with the undoubted strength of raw material. The activity noted extends to practically all lines of hardware material, jobbers being rushed getting out goods which have been held for the benefit of low freight rates consequent upon the opening of inland navigation.

BARBED WIRE—There is a fair demand for barbed wire since the rise, and prices are firmly held at \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—An error was made last week in referring to smooth wire. The advance was not in smooth steel, but in galvanized, on which the base price is \$2.80. For smooth steel wire the base still remains at \$2.50 f.o.b. Montreal and Hamilton.

FINE STEEL WIRE—In fair demand, with discounts 25 per cent. off the list f.o.b. at factory points.

BRASS AND COPPER WIRE—There is a quiet trade noted, discounts being 50 and 2½ off on brass, and 45 and 10 per cent. off on copper wire.

FENCE STAPLES—Inquiry is fair at the recent advance, and prices are firm at \$2.90, for bright and \$3.50 for galvanized.

OTHER STAPLES—Steady. Cooper and poultry netting, 15 per cent.; electrical, broom, bed, etc., 10 per cent.

WIRE NAILS—There has been a good demand for wire nails, and prices show no further change this week. We still quote \$2.50 to \$2.60 as to quantity.

CUT NAILS—A good trade is noted in cut nails, and prices are firm at \$2.05 f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.B.

PRESSED SPIKES—In fair inquiry and steady with 40 per cent. discount.

GALVANIZED ROOFING NAILS—Business much the same, and prices steady at 8c. with 25 per cent. discount.

HORSESHOES—In fair inquiry at the advance. We quote: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

HORSE NAILS—Business is moderate and prices are steady. Discounts are 50 per cent. on Standard, and 50 and 20 on Acadia brands.

TACKS—Trade is fair. We quote as follows: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—Steady. In dozens, 85 and 25 per cent.; and in bulk, 10 per cent. off list.

SCREWS—Trade is well maintained in

MILK CAN TRIMMINGS—

BROAD HOOP PATTERN

The Strongest Bottom Made.

Inner band ¼-inch above the outside bands.
Cannot tear away.

Nothing to wear away.

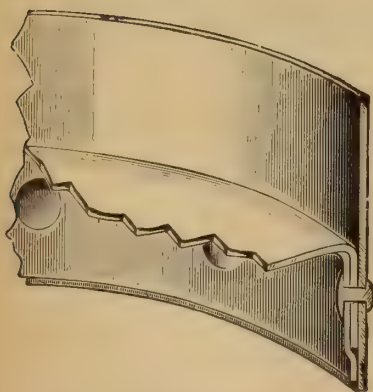
Nothing to break.

No place for dirt to lodge.

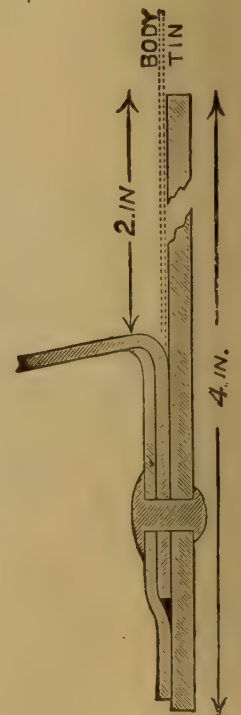
The body tin can be inserted 3 16-inch into cavity between bottom and outside band.

Solder cannot crack.

Bottom cannot spring.



Cut of section of bottom.



Sectional cut showing actual thickness.

THE HEAVIEST BOTTOM MADE

Order a sample set. If you want your order quickly, order from McClarys.

The McClary Manufacturing Company

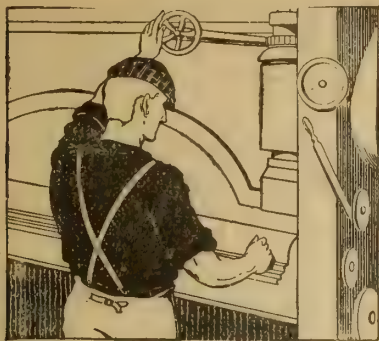
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



If you want a galvanized iron to make a good job and save wages—Apollo.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

these. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—Demand is good and an active trade is passing in this line. Discounts are as follows: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—Prices remain as last quoted, with a fair demand. Discount on black and tinned rivets, 55 per cent.; ditto burrs 50 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—The strong tone, both in sisal and manila rope, is fully maintained, and prices point higher. We quote the base on manila, 11¼c.; sisal, 10¼c.; lath yarn, 9¼c.

SHOT—Without change, 6c. for ordinary, and 6½c. for chilled.

WRINGERS—There is a fair seasonable trade in these and prices are the same at \$48 to \$60, as to brand, with 45 per cent. off list.

BUILDING PAPER—There is a fair inquiry for building paper, all sorts being asked for.

WARE—Nearly all the orders coming in now ask for shipments of enameled ware in medium sizes.

GREEN WIRE CLOTH—The movement of this material has been quite active lately, and prices are firmly held.

SPADES AND SHOVELS—These are in active request, with discounts unchanged.

HARVEST TOOLS—Supplies are late with jobbers, who experience a fair inquiry for these goods.

CEMENT—There have been several inquiries for large lots of cement for future delivery, but the actual daily movement is light at present. First arrivals came to hand this week. We quote: Belgian, \$1.90 to \$2.10; English, \$2.30 to \$2.40, and German, \$2.45 to \$2.65 per cask ex wharf. Spot prices for prompt delivery are: English brands, \$2.35 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10 per cask, ex store.

FIREBRICKS—An active trade has been transacted in firebricks for present and future delivery, and prices are firm at \$19 to \$26 per 1,000, as to brand ex store, and \$17 to \$23 per 1,000 ex wharf.

METALS.

There has been no striking change in the heavy iron or metal market during the past week, and values generally are firmly held all round.

PIG IRON—A few lots of Hamilton pig have been moving at \$17 to \$18, as to quantity, and we hear of nothing new in Scotch iron, which is very strongly held.

Tinplates

"LYDBROOK" Best Coke.

"The Canners' Favorite."

"ALLWAYS"

The Best Charcoal.

"Standard of the world."

Import only.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASCOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

BAR IRON—Business in bar iron has been active, and prices are stiff at \$1.70 in car lots and \$1.75 in smaller quantities.

HOOP IRON—No change is to report in hoop iron, which is steady at \$2.65 to \$2.70.

STEEL—Continues very firm, and, in the case of small quantities, higher prices are asked. We quote as follows: Sleighshoe, \$2.45 to \$2.50; tire, \$2.45 to \$2.50; spring and machinery, \$2.60, and toe calk, \$2.90.

GALVANIZED IRON—Very firmly held, at \$4.75 for No. 28 "Queen's Head," with "Comet" \$4.35.

INGOT COPPER—Strong and unchanged at 19½ to 20c.

INGOT TIN—A fair trade is noted, and prices are firmly held at 29c. for all sorts here.

PIG LEAD—In good demand and unchanged at 4¼c.

LEAD PIPE—Steady, at 7c. for ordinary, and 7½c. for composition waste, with 17½ per cent. discount to the trade.

IRON PIPE—Some sellers are asking another advance on iron pipe this week, but supplies can still be had at the rise noted last week, as the largest handler of pipe is still accepting orders at last week's level. Even they admit, however, that prices have a strong upward tendency. We quote: Black pipe, ½ and ¾-inch, \$2.98; ½-inch, \$2.75; ¾-inch, \$3.30; 1-inch, \$4.50; 1¼-inch, \$6; 1½-inch \$7.50, and 2-inch, \$9.50. Galvanized pipe, ½ and ¾-inch, \$5.64; ½-inch, \$6.64; ¾-inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—There is a fair movement in these. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—Orders for these are quite numerous, and prices are firm. We quote as follows: Coke, I. C., \$3.25; charcoal, I. C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Demand has been more active, and prices are very firm on the basis of \$6.25.

COIL CHAIN—In good inquiry. We quote: No. 6, 9¼c.; No. 5, 8¼c.; No. 4, 7½c., and No. 3, 6½c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ⅝, \$3.25; ¾, \$3.15, and ⅞, \$3.00 per 100 lb.

SHEET ZINC—Fairly active and firm at 8 to 8¼c.

ANTIMONY—Firm and unchanged at 10 to 11c.

SPELTER—Prices on this material have

advanced 25c. to \$7 for V.M., and \$6.75 for S.S.

GLASS.

There has been nothing striking to report in this market, but the firm feeling is fully retained. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

There has been a good mixed trade in seasonable paints and colors of all sorts. Dry zinc has advanced to £29 in England, and this should have an influence on values later. Linseed oil is scarce; in fact, the market here is bare of supplies.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½c.; in oil, pure, 8c.; No. 1, 6½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine - barrels, 1c. less, ten and twenty - barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 66c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Steady; \$1 to \$1.20 per gallon.

CASTOR OIL—Steady at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COAL OIL—37½ to 42c.

NAVAL STORES—No new feature to note. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Syracuse Smelting Works report large receipts of old brass and copper. These goods are all shipped to their Syracuse smelting works where they are made into pig metals. They claim they are the largest buyers of this metal in Canada. Correspondence is solicited with those having old brass and copper for sale.

OAKEY'S

The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

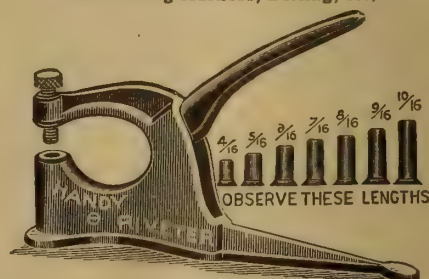
JOHN FORMAN, 644 Craig Street MONTREAL

SITUATION WANTED.

SITUATION WANTED AS HARDWARE clerk; 13 years' experience; good stockkeeper, capable of taking charge, store and books. Box C, HARDWARE OFFICE. (18)

IMPROVED HANDY RIVETER

For mending Harness, Belting, etc.



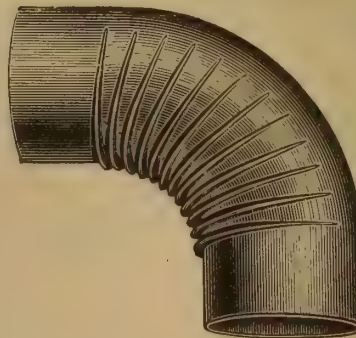
This is the Only Riveting Machine which will do sure work, throwing the rivet to centre of anvil every time and clinching a perfect head. The only machine operating a rivet longer than ½ inch—this being absolutely necessary for mending traces and heavier parts of harness. Most simply constructed and easiest operating Riveter on the market. Your stock is not complete without a supply of these very handy machines, which are rapidly becoming universal with the farmer, stockman, horse man, etc. A box of 50 No. 1 Tubular Rivets in assorted lengths, from ¼ inch to ¾ inch, with each Handy Riveter. When you want the best Riveter at the best price, write us regarding the Handy. We guarantee every machine.

ENTERPRISE MANFG. CO., Toronto, Ont.

E. T. Wright & Co.

Manufacturers and sole owners

SCHIEPE'S PATENT STOVE PIPE AND COOPER'S ONE-PIECE ELBOW.



Manufacturers of Bird Cages, Lanterns, and full line of Tinware.

HAMILTON, ONT.

Send for New Catalogue.

ONTARIO MARKETS.

TORONTO, May 5, 1899.

HARDWARE.

THE past week, like its predecessor, has been a most busy one for the wholesale hardware trade. A good many orders have been coming in, but probably the greatest activity is due to the getting ready of shipments ordered some time ago, to be forwarded at the opening of navigation. There have not been many changes in the wholesale hardware trade during the past week. The most important change is an advance of 10 per cent. in enameled ware and tinner's trimmings. Cast iron hardware has again been advanced by the manufacturers in the United States. Some difficulty is still being experienced in getting certain seasonable supplies from the manufacturers, which is somewhat delaying shipments. The manufacturers of fire pails, stovepipes, sheet iron pans, fire shovels, "Acme" frying pans and steel spiders have also advanced their prices. The business in wire and cut nails continues fairly good, although, of course, with the large orders that were placed a short time ago, it is somewhat of a sorting-up nature. There is not a great deal being done in fine wire, although a good business is shortly looked for.

BARBED WIRE—The Canadian manufacturers are still experiencing some difficulty in securing wire from which they produce this article. There is not, therefore, a great deal of business being done, but prices are firm at last week's advance. We still quote \$3 f.o.b. Toronto, with 2 per cent. off 10 days. Plain twist is quoted at the same figure.

SMOOTH STEEL WIRE — Through some misunderstanding an error crept in last week in regard to the base price of this article. It was given at \$2.80 f.o.b. factory. This was a mistake. It should have been \$2.50. The list of extras will be found among the prices current. There is not much business being done, but a good trade is looked for shortly.

FINE STEEL WIRE — Much the same remarks apply to this as to smooth steel, as far as business conditions are concerned. The discount is still 25 per cent. f.o.b. factory point. We quote in 100 lb. lots: No. 17, \$5; No. 18, \$5.50; No. 19, \$6; No. 20, \$6.65; No. 21, \$7; No. 22, \$7.30; No. 23, \$7.65; No. 24, \$8; No. 25, \$9; No. 26, \$9.50; No. 27, \$10; No. 28, \$11; No. 29, \$12; No. 30, \$13; No. 31, \$14; No. 32, \$15; No. 33, \$16; No. 34, \$17. Extras net—tinned wire, Nos. 17-25, \$2; Nos. 26-31, \$4; Nos. 32-34, \$6. Coppered, 75c.; oiling, 10c.; in 25-lb. bundles, 15c.; in 5 and 10-lb. bundles, 25c.; in 1-lb. hanks, 50c.; in

Eastlake Shingles

Galvanized
or
Painted.

Fit together perfectly by means of our patented side lock, and give absolute protection from all conditions of weather.

They are now, as they always have been, the most reliable, economically durable, and satisfying shingles to be had. No changes are made in their construction, because no chance for improvement has been found.

THEY'RE QUICKER LAID than any other shingle—and fire, lightning and rust proof.

Write for full information if you aren't handling them—they're in demand.



THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

½-lb. hanks, 75c.; in ¼-lb. hanks, \$1; packed in casks or cases, 15c.; bagging or papering, 10c.

WIRE NAILS—These are just as firm as ever, and, while a fair business is being done, it is more of a sorting-up nature, owing to the fact that the trade was pretty well supplied before the recent advance in prices. Taken all round, however, business is good. The base price is unchanged at \$2.55 Toronto.

CUT NAILS—There is a fair business being done, and, compared with a year ago, the volume appears to be larger. Prices are unchanged, the base figure still being \$2.05 f.o.b. Toronto, Hamilton and London.

HORSE NAILS—There is just a moderate trade being done in this line. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—The manufacturers are busy making shipments to the wholesalers, but the latter are only yet experiencing a moderate demand, which, of course, is only to be expected at this time of the year. Prices are unchanged. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 1 and larger, light, medium and heavy iron shoes, \$2.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.65 per keg; iron snow shoes, \$3.90; light steel shoes, \$3.90; featherweight steel shoes, all sizes, \$4.90; toe weight, steel, are quoted at \$6.10 f.o.b. Toronto, Hamilton, London and Guelph.

SCREWS—Trade in this line continues active, with prices firm. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head

brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—The activity which has been noted in this line during the past few weeks still obtains, and prices remain firm. We quote: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—Trade continues fairly good and prices unchanged. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The conditions are much the same as a week ago and business is fairly good. We quote as follows: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. New Zealand rope has been advanced to 9½c. per lb. Other quotations are: Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c.

Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—These are still being forwarded in fairly good quantities. Prices are firm at the recent advance. We quote as follows: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—Trade continues fair and prices unchanged. We quote as follows: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—Quite a little of this is still going forward, and prices are unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

WARE—The past week has been quite an important one in regard to enameled ware. In some lines, notably whiteware, there has been an advance of 10 per cent. It will be remembered that HARDWARE AND METAL, some weeks ago, announced that an advance was quite probable. It is to be hoped that the trade took advantage of the warning. Trade in this line is good, as may also be said of tinware.

GREEN WIRE CLOTH—The feature in regard to this line is the difficulty which is being experienced by jobbers in getting supplies from the manufacturers. The demand continues good and prices firm, at \$1.20 per 100 square feet.

POULTRY NETTING—There is a fair demand at the discount of 50 and 5 per cent.

EAVETROUGH—Trade keeps good. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—The demand is good and prices firm, the discount still being 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—There is quite a scarcity in some lines of these, particularly in rakes and hoes and certain brands of forks. The discount on harvest tools is unchanged at 60, 10 and 5 per cent.

GALVANIZED BUCKETS—Business keeps fair and prices unchanged. We quote: Straight pattern, No. 12, \$2; No. 14, \$2.25; No. 16, \$2.55. Flaring pattern, No. 11, \$2.25; No. 12, \$2.50; No. 13, \$2.85; No. 14, \$3.30.

LEATHER BELTING—Business in this line continues good, and prices are firm and unchanged. We quote: Extra, 50 per cent.; Standard, 50 and 10 to 50 and 5 per cent.

SOLDERING IRONS—A mistake crept into this paragraph last week. In noting the change in prices, it was said that 3-lb. irons were quoted at 33c. It should have been 1

to 1½ lb. at this figure. We quote: 2 lb., 30c. per lb.; 1 to 1½ lb., 33c. per lb.

CEMENT—An active demand is reported. Stocks are liberal. Prices are steady and unchanged. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The outside markets have ruled strong during the past week, although tin took a slightly easier turn, on Wednesday, in both London and New York. Locally, however, quotations remain as before. The copper market is still strong. The chief change locally is an advance in the price of different kinds of steel.

PIG IRON—The market is quiet, with prices firm. For No. 2 foundry, American make, \$16.50, Toronto, in bond, and Southern soft, \$17.65 are still quoted.

BAR IRON—A good many old orders are being shipped by the mills, but not a great many new ones are being received. The base price is firm and unchanged at \$1.65 for carload lots at the mills and \$1.75 for small lots.

BLACK SHEETS—There is a good demand for both sheet iron and steel sheets. 28 gauge is unchanged at \$2.85 per 100 lb.

STEEL—Prices are higher in certain lines

DISTINCTIVELY HARDWARE MEN'S BICYCLES.

Columbus Cavalier AND Earl

Fitted with Dunlop tires and best equipment.
Quality, Finish, Durability and Price guaranteed by us.

Lancaster Gas Lamps.
Search Light Oil Lamps.
New Departure Bells. Eclipse Cements.

Caverhill, Learmont & Co., - Montreal.

leighshoe steel now being quoted at \$2.50 base; tire steel, \$2.50; machinery, \$2.65; toe calk steel, \$2.95.

GALVANIZED IRON—Import orders are now beginning to arrive, consequent upon the opening of navigation in Montreal. The demand is fair and prices firm. We quote the different brands of 28 gauge as follows: "Queen's Head," \$4.75; American, \$4.50, and "Gordon Crown," \$4.50.

COPPER—There is a good trade being done in both ingot and sheet copper, and prices outside are higher than they were a week ago. Locally, however, the only change is in planished copper, which is now quoted at 34c. instead of 32c. as formerly. ingot copper is quoted at 19 to 19½c., and sheet at 23 to 23½c. per lb.

BRASS—There is a steady demand for brass, and, while some are quoting a discount of 5 to 7½ per cent., other houses are quoting prices net.

PIG TIN—Until Wednesday last, the outside markets continued to appreciate, but, on that day, in both London and New York, there was an easier feeling. Advices from New York, however, state that it is expected prices will be nearer 30c. per lb. than they now are. Toronto dealers have advanced their prices for Lamb and Flag to 29½ to 30c. per lb., but the majority of jobbers are still quoting 29c. for Lamb and Flag and 28½c. for Straits.

TIN PLATES—A good trade is being done in this line and the outside markets continue to advance, although, locally, quotations are as they were a week ago.

TIN SHEETS—Trade in this line continues good. We quote: 24-gauge, 6 to 6¾c.; 26-gauge, 6¾ to 7c.; 28 gauge, 7½ to 7¾c.

CANADA PLATES—There is not a great deal doing, although, for this time of the year, business may be counted fairly good. We quote: All dull, \$2.50 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—Trade in this line continues good. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—Trade in this line continues good, with prices firm at 4¼ to 4½c. per lb.

IRON PIPE—The demand for iron pipe continues decidedly brisk. A number of large orders have been booked, and a good many are still being taken. Prices are firm at last week's advance. We quote: ½ to ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ¼, ¾ and ½ inch, \$5.60; ¾ inch, \$6.10; 1 inch, \$8.70; 1¼ inch, \$12; 1½ inch, \$14.75; 2 inch, \$19.75.

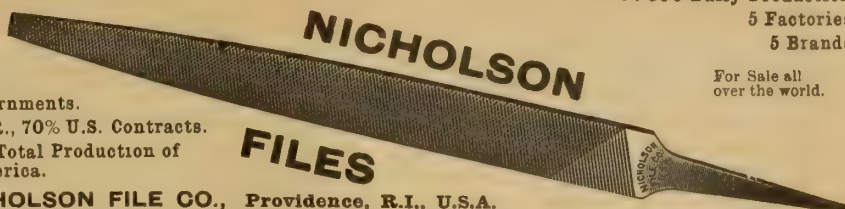
RANGE BOILERS—Business continues good and prices strong at quotations. We

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production

5 Factories

5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETTE**," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

quote: Galvanized, 30 gals., \$6; 35 gal., \$7; 40 gal., \$8. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 20 per cent.

HOT-WATER HEATERS—The price of these has been advanced, the discount now being 30 per cent., instead of 35 per cent.

COIL CHAIN—The demand is good and prices are firm. We quote as follows: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ¾ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—The demand is moderate and prices unchanged at 8¼ to 8½c. for casks and smaller lots, respectively.

SPELTER—Business is just moderate, and prices are firm at 7½ to 7¾c. per lb.

SOLDER—The improvement noted last week in business appears to have been maintained. We quote: Half and half 17½ to 17¾c.; refined, 17 to 17¼c.; wiping, 15¾ to 16c. per lb.

ANTIMONY—Trade is rather quiet and prices unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

The spring rush is now on in earnest, and, as a result, there is an active movement of everything, both staples and sundries. The supply of all materials has been liberal, with the exception of turpentine. During the early part of the week there was practically no turpentine on the market, but the arrival of a car on Wednesday relieved the shortage. Prices are steady in all lines. The manufacturers of white lead meet on Monday next, and from the talk heard "on the street," an advance of 12½c. is anticipated. As yet, however, there is no change. We quote:

GLASS.

The demand is improving. It is feared that, notwithstanding the arrival of early sorting orders, a severe scarcity of many sizes is likely, as import orders are likely to be slow in arriving this year. Prices are firm in consequence of this feeling. We quote: Star, first break in 50-foot boxes, \$1.80, and in 100-foot boxes, \$3.50; double diamond under 25 united inches, \$5.50, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

COAL.

There is little doing. A reduction of 25c. per gross ton is noted, but this is offered for May shipment only. The scarcity of the nut sizes, which resulted in an advance

THE OAKVILLE BASKET CO.,

Manufacturers of

1, 2, 3 Bushel

Grain

AND

Root

BASKETS

THE OAKVILLE BASKET CO.



of 25c. in that size, has been relieved and nut is now selling at the same figure as egg and stove. We quote anthracite at Buffalo and bridges as follows: Egg and stove, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

MARKET NOTES.

Steel is dearer.

Anthracite coal has declined 25c. per gross ton.

Planished copper has been advanced to 34c. per lb.

Tinners' supplies, with certain exceptions, are 10 per cent. higher.

Hot-water heaters are dearer, the discount now being 30 per cent.

Certain brands of enameled ware, notably white ware, are 10 per cent. higher.

PERSONAL MENTION.

A. G. Kyle, of Kyle & Squire, hardware merchants, Warton, Ont., was in Toronto on business this week.

F. W. Lamplough, of Lamplough & McNaughton, Montreal, left Tuesday night for an extended trip in the firm's interests. He will visit England, France, and Germany before returning.

Mr. George A. Childs, Montreal, Canadian sales agent of the American Steel and Wire Co., was in Toronto this week in company with Mr. de Lisle, the company's traveling representative.

MANITOBA MARKETS.

WINNIPEG, May 2, 1899.

BUSINESS continues good, especially in building hardware, but no change of prices has occurred during the past week. Bluestone is still short in the market and very dear. This morning the carpenters and plumbers have gone on strike. The carpenters warned the contractors last December that unless there was a readjustment of the scale of wages there would be trouble. The rate asked for is a minimum wage of 30c. per hour. If the matter continues unadjusted long it will seriously affect building operations. The plumbers are asking for a minimum of 40c. per hour. There is prospect also that the bricklayers, stonemasons and painters and decorators will join in the strike. The difficulty so far as the carpenters are concerned seems to be not so much an unwillingness to give the price asked as a determination on the part of certain contractors not to recognize the union. Screen wire is now in active demand; the price quoted is \$1.50. Other prices are as given below:

Barbed wire, 100 lb.	\$3 50
Plain twist	3 50
Staples	3 75
Oiled annealed wire.	10 2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1.	4 25
No. 2 and larger	4 00
Snow shoes, No. 0 to No. 1.	4 55
No. 2 and larger	4 25
Steel, No. 0 to No. 1	4 55
No. 2 and larger	4 30
Extra light	5 50
Bar and band iron, \$2.30 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb.	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 00
14 to 26 gauge.	3 25
28 gauge.	3 60
Galvanized American, 16 gauge.	4 00
18 to 22 gauge	4 25
24 gauge.	4 50
26 gauge.	4 75
28 gauge.	5 00
Genuine Russian, lb.	12
Imitation	8
Tinned, 24 gauge, 100 lb.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	13 00
Ingot tin.	29
Canada plate, 18 x 21 and 18 x 24	3 10
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots.	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black 1/4 inch.	3 00
" 3/8 inch.	3 25
" 1/2 inch.	4 00
" 3/4 inch.	4 50
" 1 inch.	6 25
" 1 1/4 inch.	8 50
" 1 1/2 inch.	10 25
" 2 inch.	14 00
" Over 2 inch.	70 p.c.

Rope, sisal, 7-16 and larger.	10 05
" 3/8	11 00
" 1/2 and 5-16	11 50
Manila, 7-16 and larger	11 50
" 3/8	12 00
" 1/2 and 5-16	12 50
Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, 10 and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass.	70 and 10 p.c.
Round " "	60 and 5 p.c.
Bolts, carriage	55 p.c.
Machine.	60 p.c.
Tire.	55 p.c.
Sleigh shoe.	65 p.c.
Rivets, iron.	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels.	
Harvest tools.	60 to 60.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1.	1 50
No. 2.	1 25
Octagon extra.	1 65
No. 1.	1 25
Linseed oil, raw, per gal.	57
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol.	25 p.c.
" military.	15 p.c.
American R.F.	35 p.c.
C.F. pistol.	5 p.c.
C.F. military.	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge.	15 00
chilled, 12 gauge.	16 50
soft, 10 gauge.	20 00
chilled, 10 gauge.	21 00
American, M.	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled	7 00
Powder, F.F., keg.	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed.	70 and 30 p.c.
Granite ware, according to quality.	50 to 60 p.c.

COLORS OF GOLD METAL.

Many people, says an exchange, regard gold as of one color; this is a mistake, as pure gold varies considerably. An expert can tell the locality from whence it was derived by its color. The Australian gold is much redder than Californian. Nugget gold (Klondyke, for instance) is yellow, whereas that from quartz is of a deeper "golden" tint. The reddest gold comes

from the Ural mountains. Of course, few people see pure gold, for the metal of commerce and even our coins are alloyed. Native metal is much too soft to be used alone, and requires an alloy to enable it to withstand rough wear and tear.

A SATISFIED PAINT FIRM.

Messrs. P. D. Dods & Co. are among Montreal's busiest firms, and are well pleased with their share of Canadian trade. They are large manufacturers of paints, varnishes, etc. Their "Island City" brand has now a large sale throughout the Dominion, and is constantly increasing. Two years ago they decided to establish a branch in Toronto, and from the first it has been a decided success. The business done in the Ontario capital last year was 50 per cent. in excess of the previous year, and their spring business is opening up splendidly.

Their Quebec and Maritime Province trade has always been a large and satisfactory one.

They wish to assure their customers that the quality of their goods, which has given such general satisfaction in the past, will not be changed, and that all can rely upon getting the same quality.

Besides being paint and varnish manufacturers, they are large dealers in oils and glass, and carry a complete line of painters' and glaziers' sundries.

STEEL STILL ADVANCING.

The steel market continues to advance, and quotations, as will be noticed from our market reports, are again higher.

Sleighshoe steel and tire steel are now quoted at \$2.50 per 100 lb. Machinery steel is \$2.65, and toe-calk steel \$2.95 per 100 lb.



Goodflex Enamels are pure, unadulterated materials. You can do good work with them.

Either sell them over the counter at retail—or do the enameling yourself.

For baking, get a Goodflex Double-wall Gasoline or Gas-burning Enameling Oven, and Goodflex Baking Enamels.

For full information get our little booklet, which gives colors—ask for Number 11.

You can only get the booklet if you are a dealer.

To get the booklet, write.

Goodflex Enamels are as good for business as Goodrich-Resflex Single Tubes are good for reputation.

American Tire Co., Limited,
164-166 King St. West, Toronto.

Do You Sell Horse-Nails ?

If you do---you will be interested in knowing which is the best brand for you to sell? We just will tell you in a few words.

We ask your consideration of the following reasons for our making the claim that the "**C**" brand made by our company since 1865 is the best.

First: The material of which they are made. It is the best obtainable---Swedish charcoal steel nail rods---made especially for our work, and imported direct by us from Sweden. We unhesitatingly affirm that no better material is used by any manufacturer of horse-nails in the world for this purpose.

Second: The process of manufacture. We forge the nails to the desired pattern from the nail rods while they are at a white heat, and therefore in a malleable condition. Our process thoroughly hammers and consolidates the nail, making it tough and enduring: no other method will do this as satisfactorily.

After forging, there are several special processes for polishing, rolling, pointing and finishing the nails: our methods differ from those used elsewhere in Canada, and we are satisfied, with much better results.

When the nails are finished, they are subject to a final careful examination and sorting by hand, so as to prevent a single imperfect nail being found in a box bearing our "**C**" brand.

We guarantee to every purchaser that each box of horse-nails bearing our name and trade mark (the letter "**C**") is perfect and ready for immediate use. They may be returned at our expense if found otherwise.

Any dealer who wishes to secure the farrier trade, can do so by selling the best horse-nails: The "**C**" brand will be found the best.

We ask those who wish to favour us with their orders, through any wholesale hardware merchant, to be particular and specify for the "**C**" brand made by the

CANADA HORSE NAIL COMPANY.

MONTREAL

IRON SOREWS IN STONE WALLS.

For securing engines and other machinery, also for wall brackets for shafting and for other purposes, it is often desirable to screw bolts into stone walls, and it is difficult to secure a firm hold. The following method is used with success. Of the originator of it we are not informed: A wire of suitable thickness is coiled on the screws, so as to follow the threads of the same and to form a kind of screw nut. The coiling may commence near the head of the bolts and

proceed toward the point by laying the wire into the grooves. After arriving at the point of the screw, the wire may be wound backward over the helix already wound on, but with a steeper pitch, so as to leave wider interstices between consecutive convolutions of the wire. This wire coil or nut is introduced into the hole formed in the wall for this purpose, it being slightly larger in diameter than the outer layers of wire, after which the surrounding spaces are filled up with plaster of paris, cement, or similar

binding material in a plastic condition. After the plaster or cement has thoroughly set and hardened, the bolt may be tightened enough to give it a proper bearing and tension.—American Machinist.

The Ottawa Mica Manufacturing Co., Ottawa, which controls mines at Wakefield, Cantley and Chelsea, Ont., intends increasing its staff in Ottawa from 50 to 100, on account of increased demand for their output.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

Ours is **The "Standard"**

... Wickless Blue Flame Stove.



"Standard" because all others are claimed to be "JUST AS GOOD."

It has "glass sight feed," showing flow of oil and insuring rapid and easy regulation of valve.

It has measuring cup for lighting, giving quick operation and preventing overflow of oil.

It has no wicks to keep clean, no joints to leak, no small parts to break, nor fine tubes to clog.

Made in eight styles and sizes, all mounted on steel encased frames, and for durability, beauty and convenience is unequalled.

For catalogue and prices, write us.

THE THOS. DAVIDSON MFG. CO., Limited, MONTREAL, P.Q.

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

GRIFFIN AND SHIELD BRAND



This Mark is a Guarantee
of Quality.

Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

of Montreal

MANUFACTURERS

HALL'S PATENT

Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our . . .

Mixed Paints Varnishes
Floor Paints Colors in Oil
etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

MONTREAL

THE CARE OF BRUSHES.

Too much cannot be said in regard to the use and care of brushes. We have seen many persons who were real good painters, but who did not seem to understand anything about taking care of their tools.

A good brush is just as necessary to the execution of a good job as material and skill. Tools that receive proper care will last much longer and give better satisfaction than if they are abused; but a great many painters do not seem to realize this. When they are through with a brush for the day, they carelessly throw it into a tub of water and leave it there; if the bristles are twisted out of shape and half of them out of water, it does not apparently make any difference. When they get ready to use that brush again, they are surprised to find that it is ruined, and they give utterance to language far more forcible than elegant.

Preparing a new brush is a very important item in the future usefulness of that brush. Under no circumstances should a new brush, whether paint or varnish, round, oval or flat, be put in the water to swell, for water-soaked bristles will always work flabby, and if the bristles are of a fine quality they will nearly always twist. All round, oval or flat brushes, no matter how well they are made, are subject to shrinkage, according as they are kept in dry or warm places.

A brush should not be condemned because it contains a few loose hairs. A good and careful workman will get these out before he puts his brush into use. A little thoughtfulness on the part of the foremen in the shops will save a large amount of trouble, and many a brush that is hastily condemned will prove a good one.

Boeckhs' flexible bridle is attached to all their brushes free, and can be put on or taken off in a second, and is not affected by water, oil or paint.—Painter and Decorator.

A USEFUL ALLOY.

Experiments in the Sibley laboratory at Cornell University have shown that an alloy of two-thirds aluminum and one-third zinc possesses some remarkable qualities, says an exchange.* It is white and takes a fine finish, and is equal in strength to good cast iron, but superior to it in elasticity. On the other hand, it melts at 800 to 900 deg. Fahrenheit, and can be liquified in a ladle over an open fire. In the liquid form it fills a mold, running into the small parts much better than brass, but is more brittle than brass. With its small castings can be made without the use of a foundry furnace.

"Now," said Bunker, "I can once more face the world an honest man. The last of my debts is outlawed,"—Philadelphia North American.

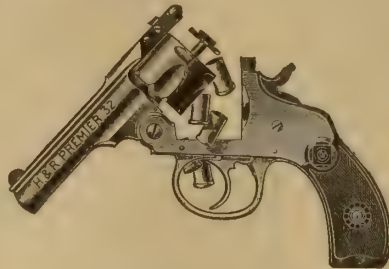
Best Crucible Steel.

McCLELLAN FILES

Fully Warranted.

Sold by **CANADA HARDWARE CO., LIMITED, MONTREAL**, Agents for Quebec.**HARRINGTON & RICHARDSON ARMS CO.**

WORCESTER, MASS., U. S. A.

Makers of — **High Grade REVOLVERS**

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO., Gooderham Building, **Toronto**

THE LATEST

THE BEST

Banner Cold Blast

Tubular Lanterns

With Patent Safety Extinguishing Burner. For sale by all prominent Hardware and Lamp Goods Merchants.

The "Victor"
Bicycle Lamp
Burns Acetylene Gas.
Handsome! Practical!
Low Price!

Throws a brilliant light 200 feet.
The demand for the "Victor" Lamp is increasing daily.

Address all enquiries to

WALTER GROSE

Sole Selling Agent.

Large White Flame.
Windproof.— **MONTREAL****Geo. D. Wood & Co.**

WINNIPEG, MAN.

Importers of and Dealers in

**SHELF AND
HEAVY**

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now complete in seasonal lines. Prompt shipment.

Letter orders receive special attention.



Henry Disston & Sons,

The way of going after it
Has all to do with getting it.

If you want to keep
your file trade, buy

DISSTONS

the name is a
sufficient guarantee
of the quality.

LEWIS BROS. & CO.

30 St. Sulpice Street

Canadian
Agents.



MONTREAL.



THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne
 All England Championship Cup, value £100, also stake £100, in all £200, on 7th December, 1898, the winner fired with our shot and writes us: "You will be pleased to hear I won the All England Championship Cup. **I fired with your chilled shot.** Indeed, I would not use any other, as I know from experience it makes the best patterns and kills best."

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penman-ship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penman-ship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
 SHIELD BRAND SHEATHING
 GOOD LUCK FIBRE**

2 and 3 PLY READY ROOFING

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL



Pullman Sash Balance Co.

Makers of the

**"Pullman"
 Hardware
 Specialties**

Main Office and Works,
 Rochester, N.Y., U.S.A.



FOR

**Bicycle Plates
 Time Checks
 Steel Stamps
 Rubber Stamps**

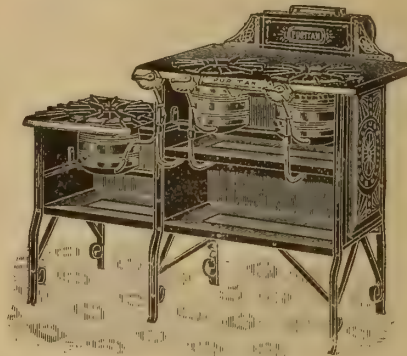
Everything in the stamp line

SEND TO THE

**Hamilton Stamp & Stencil
 Works, Hamilton, Ont.**

DATER. 25c.

Puritan Wickless Blue Flame.



**This is the only Wickless
 Blue Flame Oil Stove that
 has given satisfaction. . . .**

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East TORONTO.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
 issued by the

**Confederation
 Life Association.**

HEAD OFFICE--TORONTO.

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
 Actuary.

J. K. MACDONALD,
 Managing Director

**YOU WANT IT IN YOUR BUSINESS AND YOUR
 CUSTOMERS WANT IT IN THEIR HOMES.**

THE ISLAND CITY FLOOR PAINTS



THE BEST ON THE MARKET.

HAVE YOU THEM IN STOCK ?

They dry in eight hours and are sure to give perfect satisfaction.

Send for a trial order and your customers will always be pleased.

P. D. DODS & CO.

100 Bay Street,
TORONTO.

188 and 190 McGill Street,
MONTREAL.

The
**DETECTIVE AND CONFIDENTIAL
AGENCY.**

Room 12, James Building,
75 Yonge Street - TORONTO
Investigate all matters in secrecy—Burglary, Robberies,
Fires, Embezzlements; Lost Friends Located; Legal and
Private Reports; Movements of Employees or Friends.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice.
Price \$30. Will take \$20.

19 Board of Trade, Montreal.

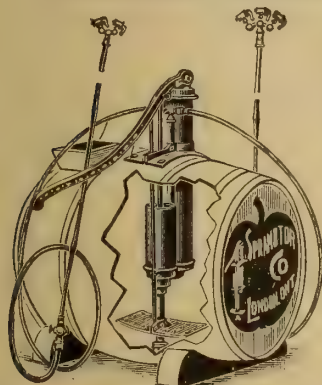
29 Years. Established 1870. 29 Years.

**SEASONABLE GOODS
AT RIGHT PRICES.**

Barbed Wire Fencing; Agricultural Implements; Bradley
Tin; Builders' and Cabinet Makers' Hardware. **Special**—
A full line of Tinsmiths' Tools and Machinery—latest
improvements.

SEYBOLD, SON & CO. - MONTREAL.

All Spraying, Disinfecting, and Whitewashing
can be done with THE SPRAMOTOR.



It is the result
of most careful
and exhaustive
experiment.
Each feature
was thoroughly
tested before
being placed on
the market.

Toronto, Nov.
9, 1898 Spramo-
tor Company,
London, Ont.
Gentlemen—
The machines
for spraying and
whitewashing
you have sup-
plied to Denton-
ia Park Farm
have done their
work well, and
are quite satis-
factory. I could
not have believ-
ed there was so
much value in

spraying fruit trees. We had a good crop of apples, whereas
our neighbors, who used no spraying apparatus, had practi-
cally none. Yours truly, W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus,
held at Grimstey, on April 2nd and 3rd, 1898, under the
auspices of the Board of Control of the Fruit Experimental
Stations of Ontario, in which there were eleven contestants,
the SPRAMOTOR, made by the Spramotor Co., of London,
Ont., was awarded FIRST PLACE.

H. L. HUTT, Judges.
M. PETTIT,

If you desire any further information, let us know, and we
will send you a 12-page copyrighted catalogue and treatise
on the diseases affecting fruit trees, vegetables, etc., and
their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

Buy the Best.

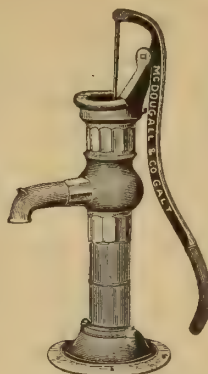


HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers



**IRON AND
BRASS**

Pumps

Force, Lift and Cistern
Hand and Power.

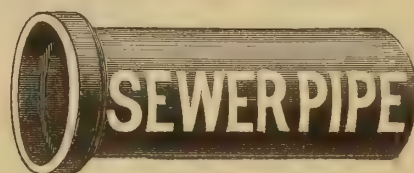
For all duties. We can
supply your wants with
—quality the best and
prices right. Catalogues
and full information for a
request.

THE R. McDOUGALL CO., Limited

Manufacturers, Galt, Canada.

FULL STOCK

DIAMOND BRAND



**WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,**

**CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.**

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

**Hardwood CHARCOAL
WOOD ALCOHOL**

in Bulk or Sacks.

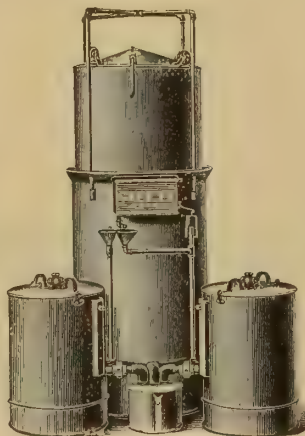
equalling Methylated Spirits as a solvent.

Manufactured only by ...

THE STANDARD CHEMICAL CO., Limited

Factories { Fencion Falls.
Deseronto.

Gooderham Building, TORONTO



ACETYLENE GAS.

The Safety Light and Heat Co. have in successful
operation machines from 5 to 200 lights.

Simplicity and safety are the leading features.
Being deeply water sealed it cannot leak. It makes
the gas cool, washes it twice, and thus makes only pure
gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS. Send for Booklet.

MURALO

**THE
SANITARY**

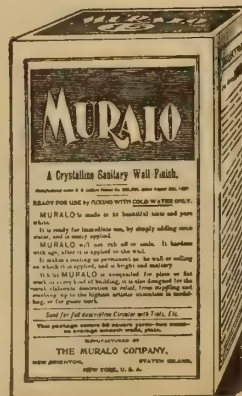
**WALL
TINT**

MURALO mixes with cold water
and is ready at once for the
wall.

MURALO is a success for the
dealer and for the consumer.
The dealer makes a profit; the
consumer is delighted.

MURALO is put up in nice strong
parcels, is well advertised, and
sells readily.

MURALO is the best cold water
wall tint on the market to-day.



MURALO is registered in Canada.
Dealers are protected.

MURALO gives results attained by
no other wall tint in the world.

MURALO already has enormous
sales in Canada. It is sold in
every country in the world.

Get **MURALO**,
we help you to sell it.

A. RAMSAY & SON
MONTREAL

Selling Agents for Canada.

HEATING AND PLUMBING

THE SITUATION IN TORONTO.

DURING March and April building permits were issued in Toronto for \$402,160, against \$334,940 in 1898, \$175,445 in 1897, and \$114,325 in 1896.

These figures show that there is no question regarding the improvement in the demand for new buildings in Toronto.

It is unfortunate, therefore, that so early in the season the Toronto builders and bricklayers should disagree so seriously that a strike has been thought necessary by the latter.

The effect of the strike on the plumbing trade has been serious. One firm alone has contracts for work in nearly 20 houses, which would have been ready for the plumbing in a few days. This work has to be suspended because the strike has left the houses almost, but not quite, ready, and delay will be forced until the necessary work is finished. Naturally, this upsets all calculations and causes loss, both to master and journeymen plumbers.

May the strike soon end is the present wish of the plumbing fraternity generally.

In the meantime, the low price of contract work is also causing much thought. At a meeting of the association's executive this matter was discussed at some length, but no solution of the difficulty was reached.

This (Saturday) evening a meeting of the Toronto association will be held, and the matter will be again brought up. Wm. Smith, London, Ont., president of the National Association, is expected to confer with the Toronto branch regarding the matter.

PLUMBING AND HEATING CONTRACTS.

Nap. Vezina, plumber, Quebec, is offering 35c. on the dollar.

The American Plumbing Supply and Lead Co., with an authorized capital of \$35,000,000, was incorporated at Trenton, N.J., last week.

Bond & Smith, Temple building, Toronto, are the architects of the new Turkish bath building which is to be erected on Terauley street near the new Toronto city hall.

Thomas Hanley has been awarded the tender for building the rolling mills, and Walter Alford for the spike and nail factory for The Abbott-Mitchell Works, Belleville, Ont.

Guest & Co., Toronto, have contracts for plumbing in Bond Street Congregational

church, Toronto, and for plumbing and gas-fitting in a residence at Kew Beach, Toronto.

Purdy, Mansell & Co., Toronto, have contracts for plumbing and steamfitting in the new building for The Toronto Type Foundry Co., Limited, on Bay street, and for hot-water heating and plumbing for the Old Folks' Home, on University avenue, Toronto.

Lafrance & Lariviere, plumbers, Montreal, have assigned on demand of The Dominion Radiator Co. The liabilities are placed at \$8,000, of which \$2,000 are secured. The principal unsecured creditors are The James Robertson Co., \$2,049, and H. R. Ives & Co., \$500.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to the trustees of the Dunn avenue Presbyterian church for a two-storey brick and stone Sunday-school on the west side of Dunn avenue, near Queen street, to cost \$8,000; to H. C. Tomlin for a two-storey brick factory at 418 Bathurst street, to cost \$4,000; to J. J. Scott for a pair of two-storey and attic brick residences on the south side of Dupont avenue, near St. George street, to cost \$3,800; to Mrs. Shoenbottom for three two-storey and attic brick-front dwellings on the west side of Palmerston avenue, to cost \$3,600; to the York County Loan and Savings Co., for four two-storey and attic brick residences at 171 and 177 Macdonell avenue, to cost \$7,200.

PLUMBING AND HEATING NOTES.

Jean & Page, plumbers, Montreal, have dissolved.

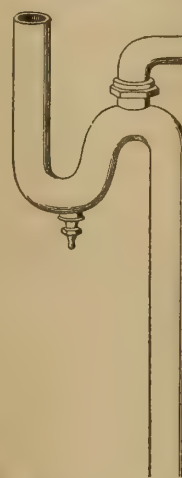
A. G. Booth, secretary-treasurer and manager of The Toronto Steel Clad Bath Co., Limited, has severed his connection with that firm. No successor has yet been

appointed. J. D. Ritchie, bookkeeper of the company, is acting manager pro tem.

Geo. P. Guinnis, representing a company of English capitalists, is offering to finance a sum of \$1,000,000 and to construct and operate an abattoir and its auxiliary industries if the Quebec Government will guarantee the principal and interest at the rate of 3½ per cent. for forty years. Beef and mutton would be exported to Great Britain dressed and chilled.

THE GEM TRAP.

To comply with many requests from their



customers, The Ontario Lead & Wire Co., Limited, Toronto, have put on the market a seamless lead trap with vent attached. This will do away with the necessity of plumbers making the connection, wiping the joint, etc. As any length of vent is furnished with this trap, it is likely to be in big

demand because of the time and trouble saved to the plumber by its use. The accompanying cut illustrates the method of connection.

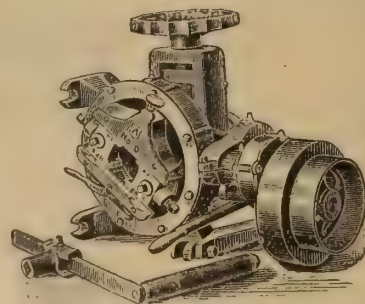
The popularity of the penny-in-the-slot gas meters is attested by the fact that during 1898 in the city of Derby, England, alone, 9,500,000 cubic feet of gas were sold in this way. There were collected 375,252 pennies, the weight being nearly 3½ tons. The amount of gas sold for one cent was a trifle over 12 cubic feet.

ARMSTRONG PIPE THREADING AND CUTTING-OFF MACHINES

(Hand or Power)

Armstrong's Adjustable Stocks and Dies, Vises (hinged), Wrenches, Pipe Cutters, Clamp Dogs, etc.

Our goods are of the highest grade, and are celebrated for their time and labor saving qualities. Send for catalogue.



No. 0 Threading Machine, with power attachment.

THE ARMSTRONG MFG. CO.

New York Office:
139 Centre Street

Bridgeport, Conn.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

HE USES

Heintz Traps.

They save his steam,
his fuel, his money, and
are so effective.

For Steam Heating or Power Plants.

The Jas. Morrison Brass Mfg. Co.
Toronto. Limited
Engineers' and Plumbers' Supplies.



Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon

The

CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

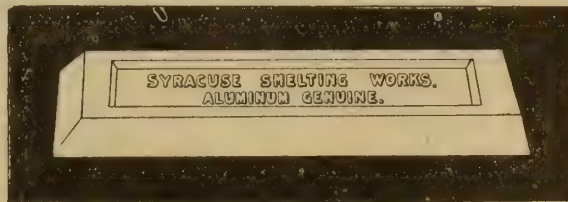
Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

USE SYRACUSE BABBITT METAL.

IT IS THE
BEST MADE.



FOR...

Paper and Pulp Mills,
Saw and Wood Working
Machinery,
Cotton and Silk Mills,
Dynamos, Marine Engines,
and all kinds
Machinery Bearings.

Pig Tin, Lead, Ingot Copper, Phosphor Tin, Phosphor Bronze Ingots, Brass, Nickel, Bismuth, Aluminum, Zinc
Spelter, Antimony, etc., furnished promptly.

— TINSMITHS' AND PLUMBERS' SOLDER A SPECIALTY. —

SYRACUSE SMELTING WORKS

B. Telephone 8171.

Factories—332 William Street, MONTREAL, QUE., and SYRACUSE, N.Y.

A GOOD SELLER

The Dodge Wood Split Pulley

The Standard Wood Pulley the world over

ALL LEADING HARDWARE HOUSES now supply their
local mills and factories. Special discounts to the trade.
Write to-day!

DODGE MANUFACTURING CO.

of Toronto, Limited

TORONTO, ONTARIO

Every pulley sold under our absolute guarantee.



BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

A TREMBLAY, general merchant, Chicoutimi, Que., has assigned, and a meeting to appoint a curator has been called for May 15.

J. C. Anderson, general merchant, Solsgirth, Man., is arranging to compromise at 40c. cash.

J. F. Therien, general merchant, St. Gregoire, Que., has compromised at 60c. on the dollar.

The Comet Cycle Co., Limited, manufacturers of bicycles, metal bedsteads, etc., Toronto, have assigned. A meeting of creditors will be held on May 16.

PARTNERSHIPS FORMED AND DISSOLVED.

Morel & Belanger, painters, Montreal, have dissolved.

J. Lecompe, Fils & Co., tinsmiths, Montreal, have dissolved.

Horskin & Hulburd, founders, Bedford, Que., have dissolved.

Jost Bros., general merchants, Sydney, N.S., have dissolved.

Riendeau, Courtois & Co., founders, Montreal, have dissolved.

Morgan & Kinder, painters, etc., Ashcroft, B.C., have registered a new partnership.

George & O'Brien, commission dealers in oils, Ottawa, have dissolved, John B. George continuing.

Ross Bros., painters, Victoria, B.C., have dissolved and have been succeeded by Ross & Ottaway.

Hargrave & Sissons, general merchants, Carlton, N.W.T., have dissolved, Daniel Sissons continuing.

Copartnership has been registered by Alex. F. and Thos. Fraser under the style of Fraser Bros., machinists, New Glasgow, N.S.

Damase Richard and Napoleon Genois have registered partnership under the style of Richard & Genois, general merchants, St. Raymond, Que.

Pierre Gravel and Joseph G. Duhamel have registered partnership under the style of Gravel & Duhamel, wholesale saddlery hardware dealers, Montreal.

SALES MADE AND PENDING.

John Bloomfield, general merchant, Mooresville, Ont., is advertising his business for sale.

The stock of Louis Cainville, general merchant, etc., South Casselman, Ont., has been sold at 56½c. on the dollar.

The stock, etc., of the estate of J. N. Laird, general merchant, Foxboro, Ont., is advertised for sale by auction, on May, 10.

CHANGES.

F. E. Burke, general merchant, Joggins Mines, N.S., has retired from business.

Shapiro Bros. have started as tinsmiths, etc., in Welland, Ont.

James Blackwell, coal and wood dealer, Welland, Ont., has retired from business.

Ulric Lefebvre has registered as proprietor of U. Lefebvre & Co., contractors, Montreal.

Richard Harron, harness dealer, Courtland, Ont., has removed to Port Colborne.

W. J. Douglas, general merchant, Oro Station, Ont., has been succeeded by Chas. Lightfoot.

The Manitoba Anchor Wire Fence Co., Limited, Winnipeg, are applying for incorporation.

T. Driffl & Sons, hardware dealers, etc., Bradford, Ont., have sold out to Andrew Thompson.

W. A. Smith, harness dealer, Niagara Falls, Ont., has removed to Niagara Falls South, Ont.

The Fighting Chance Gold Mining Co., Limited, Mine Centre, Ont., has been incorporated.

Taylor Bros. & Co., general merchants, etc., Minnedosa, Man., have sold out to W. A. B. Hassett.

A. B. Trites, general merchant, Fernie and Macleod, B.C., are giving up their Macleod branch.

Brigham & Ingram, coal and wood dealers, etc., Stratford, Ont., have been succeeded by C. F. Neild.

FIRES.

Hemenway, Lawson & Smiley, general merchants, Carman, Man., have been burned out; loss reported, \$18,000; insurance, \$8,000.

The enameling and nickel-plating department of H. R. Ives & Co., manufacturers of hardware, iron bedsteads, etc., Montreal, has been damaged by fire; insured.

Berard & Major's carriage factory, Montreal, has been burned, and the plant and stock of The Victoria Manufacturing Co., manufacturers of wire nails, and of Lymburner & Matthews, brassfounders of the same place, have been damaged by fire and water. All firms were insured.

DEATHS.

Wm. Pattison, general merchant and milliner, Fergus, Ont., is dead.

ABBNEY'S IMPROVED CHILLED SHOT.

The annual report of The Abbey Improved Chilled Shot Co., Limited, Newcastle-on-Tyne, England, has just been issued to the shareholders. The profits on the trading account show 9 per cent. on the ordinary shares (after providing for the dividend on the preference shares). The directors recommend a dividend of 5 per cent. on the ordinary shares, and that 5 per cent. shall be written off the buildings and plant to meet depreciation and that the balance of profit be carried forward.

NEW COPPER CONSOLIDATION.

Articles of incorporation were filed with the Secretary of State, Trenton, N.J., on Thursday of last week, of The Amalgamated Copper Co., with an authorized capital of \$75,000,000. The company is empowered to mine, smelt, refine and otherwise treat copper, gold and silver, zinc, brass, iron and steel. The incorporators are: Charles N. King, Charles E. Bunay, Edwin T. Rice, jr., all of Jersey City.

The directors elected recently are: Henry H. Rogers, William Rockefeller, Marcus Daly, Frederick P. Olcott, James Stillman, Roswell P. Flower, Robert Bacon and Albert C. Burrage. The following officers were elected: Marcus Daly, president; Henry H. Rogers, vice-president; William Rockefeller, secretary and treasurer. Messrs. Rogers, Rockefeller and Burrage were elected members of the executive committee.

A special despatch to The New York News Bureau, Thursday, quoted Marcus Daly, of the Anaconda, as follows: "I know where all the stock which makes up the controlling interest in the Anaconda property is, and I know that not one share of it has been disposed off to the reported Trust or to anyone else. In my opinion it is merely a speculative scheme, and I have, I think, a pretty clear idea who is behind the proposition. I know, of course, that an attempt is being made to organize the Trust, but am not afraid to hazard the opinion that it is a long way from being consummated."

BRASS WORKS REORGANIZED.

The old established works of the Haydenville Co., at Haydenville, Mass., and New York City, manufacturers of brass and iron valves, cocks, gauges, lubricators and engine fittings have been thoroughly reorganized with the following officers: C. J. Hills, president; C. K. Sanborn, vice-president; A. S. Hills, treasurer.

These works have been running continuously for over fifty years, and the product has always been kept at the highest standard of excellence, both as to quality of metal used and workmanship employed. Engineers and steamfitters who have used these goods, speak in highest terms as to uniformity of threads and practical construction of the working parts.

The company is in a condition to quote low prices and execute orders promptly. They have removed their New York office from 73 Beekman street to the American Building, 150 Nassau street.

Five schooners were built in the Shelburne, N.S., shipyards last winter. Four of them have been already launched.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

Time Saved is Money Saved.

Your Customers will Save Time by using

ARCADE FILES.

And we stand back of this statement with an offer to refund the money for any ARCADE FILES that do not cut faster and wear longer than any other make.



"See that key? It took me two hours to file it with a — file. The same job I'm doing now in half an hour with an Arcade."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

EMBELLISHING MODERN STORES.

DO merchants ever pause to think of the changes wrought by time in their several ancient and honorable trades? Do they realize that when prentices roamed the business precincts of Cheapside, crying "Clubs, clubs!" the shops wore an aspect different from now as cheese from chalk. What would the well-conditioned ones of the Guild of 100 years ago have thought of the methods of modern shop display, or fin de siecle window dressing?

Ingenuity and taste are equally called into play, and the merchant who lags in either, it is generally conceded, loses just so much patronage. To show goods in various enticing shapes constitutes the main "tricks of the trade." Of course, it is possible to find isolated merchants who deal in first-class stock who are yet negligent in the matter of attractive fixtures, but the rule is all the other way. A tradesman's yearly profits depend upon the estimate which the public place upon his progressiveness, upon his enterprise. One of the most profitable channels into which to direct enterprise is in taking advantage of Luxfer prism windows at the top of plate glass fronts, in order to secure an almost out-of-door brightness, sent from front to rear. Luxfer prisms are one of the most important inventions of the century, and appeal especially to Canadians, because emanating originally from Toronto. They dispense with hot skylights and light wells and banish gas bills. Stores which used to be considered quite bright are, by comparison with prism-lighted ones, absolutely dingy.

LATEST IDEAS PATENTED.

A sewing machine using two needles at once was patented February 1, by John Kerr, of Dayton, Ky.

A combination of pipe, cigar and cigarette holder is the invention of A. Seiden-spiner, of Brooklyn, N.Y. The stem of the pipe, when removed, being adapted for holding either a cigar or cigarette.

An improved shoe scraper which is divided in the centre, was patented by Fred. Trumple, Hoople, N.D. A circular brush revolves on a pivot set in the division, so that the act of scraping the shoe sole also cleans the sides of the shoe.

A combined cigar clipper and lighter, which has the charm of novelty, was patented by Joseph LeDuc, of Northampton, Mass. The act of clipping the cigar causes an automatic figure to grasp and present the smoker with a lighted match.

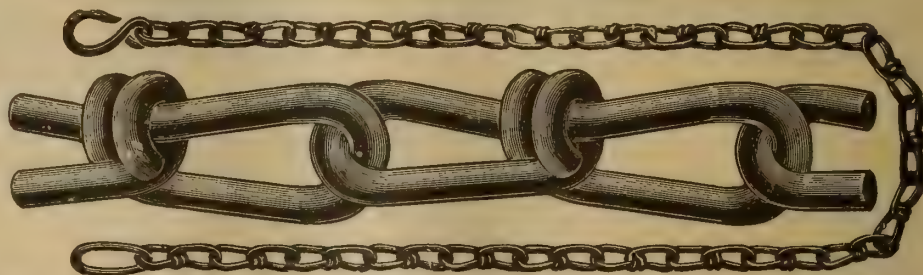
The above are reported by Marion & Marion, solicitors of patents and experts, New York Life Building, Montreal.

We Want Your Axe Order FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

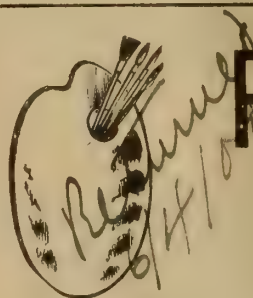
James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.



RAMSAY'S PAINT.

Ramsay's Paints pay because they are made right and please the painter, the householder, the farmer. Ramsay's Paints are made to do their work properly, to protect the house, to look well, to wear well, and they do it. Ramsay's Paints pay because they are well known. They have an enormous sale in Canada, and the price asked gives the dealer a chance for profit.

RAMSAY'S EXTERIOR LEAD.

A money-maker, a lead better than pure and cheaper than pure. Don't you think so? Send for our booklets. We can show you enough testimonials to prove it. It pays!

RAMSAY'S VARNISHES

are high-grade—made from superior gums. "Ramsay's Universal Varnish" is one of our leaders. It satisfies! It sells!

A. RAMSAY & SON, PAINT MAKERS, MONTREAL.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker
22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplate, Tinned sheets, Terns Plates, Canada Plates, Gal-
vanized sheets, Imitation Russia Sheets, Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel. Wheelbarrows, etc.



VanTuyl & Fairbank

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Wel
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

. . . TORONTO

Telephone 689.
Cable "Levesconte" Toronto.

1879 ESTABLISHED 1879

ESSEX HANDLE and WOOD TURNING WORKS.

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
Hammer, and all kinds of Handles. Neck Yokes,
Singletrees, and Doubletrees, Bench Saws, Exercise
Clubs, Baseball Bats, etc., etc. Do you sell any
Shaved Pattern and Octagon Axe Handles? The
largest and best trade in Canada does, because they
give best satisfaction. All stock air-dried, not kiln-
dried. If you are going to be in it, place your
order with

GARDNER BROS. & CO

ARE YOU A BUYER of

**Hardware, Metals,
Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest
issue of **HARDWARE AND METAL**, the lead-
ing authority on these trades, will be sent to
you free by next mail. Address :

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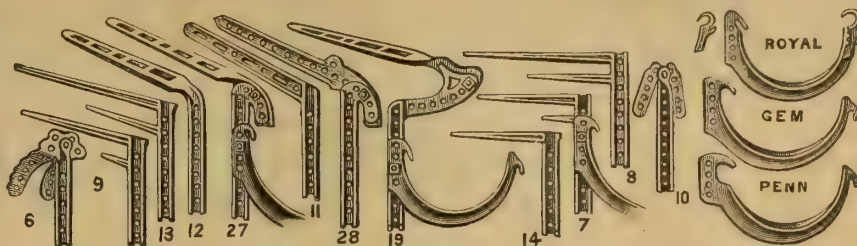
"JARDINE"

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**

BERGER'S GUTTER HANGERS

The very best made. Strong and easy to put up and adjust. By proper selection of the shank the requirements for
any style eave will be met. Other kinds of Hangers, Pipe Hooks and Fasteners, Gutter and Pipe, and a general line of

Tinners' Hardware and Roofers' Supplies.

BERGER BROS. CO.,

PHILADELPHIA, U.S.A.

STEVENS IDEAL, NO. 44

STEVENS IDEAL No. 44

This is as reliable and
accurate a rifle as can be
constructed. Placed at a
moderate price to meet the
demand for such a rifle. It
is recommended without
qualification and fully guar-

anteed. Made in the following styles:

.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire
cartridges, 24 inches. Weight 7½ pounds.

.25-20 Stevens C. F., .32-40 C. F., .38-55 C. F., and .44-40 (.44 W. C. F.) Standard length of barrel
for center-fire cartridges, 26 inches. Weight, 7¾ pounds.

Half-octagon barrel, oiled walnut stock and fore-arm, rifle butt, case-hardened receiver, sporting rear
and Rocky Mountain front sight.

Price, with standard length of barrel, \$13.00.

Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.



A Point or Two

A thing
that is worth doing at all is worth doing well—you
will agree to that. When you use Church's cold
water Alabastine for the walls and ceilings of your
rooms, you use an absolutely permanent and sanitary
wall coating that cannot decay, rub off, or scale.
Any kalsomine will decay on the wall because it
depends upon glue to hold it to the surface—Alaba-
stine (never sold in bulk) goes through a process of
"setting" on the wall and grows harder with age.
There are 16 beautiful tints (and white) to choose from.
Your dealer will show you the card when you ask
him for Church's

Alabastine

For sale by paint dealers everywhere

Free, to anyone who will mention this paper, a 45-
page book "The Decorator's Aid." It gives valuable
information about wall and ceiling decorating.

The Alabastine Co., Limited, Paris, Ont.

HUTCHISON, SHURLY & DERRETT

**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,

Cotton and Russian Hemp Plough Lines, plain and colored.

Cotton and Linen Fish Lines, laid and braided

Netted Hammocks, white and colored, Tennis and Fly Nets.

Skipping Ropes, Jute, Hemp and Flax Twines.

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO., - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS.

May 5, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—		
56 and 28 lb. ingots, per lb.	0 29	
Straits	0 28	0 28½

Tin Plates.

Charcoal Plates—Bright.		
M.L.S., equal to Bradley.	Per box.	
I.C., usual sizes	\$5 00	
I.X., "	6 25	
I.X.X., "	7 50	
R. & Co.—		
I.C.	4 75	5 00
I.X.	6 00	6 25
I.X.X.	7 25	7 50
Famous—		
I.C.	5 00	
I.X.	6 25	
I.X.X.	7 50	

Raven & Vulture Grades—		
I.C., usual sizes	4 00	
I.X., "	4 75	
I.X.X., "	5 50	
I.X.X.X., "	6 25	
D.C., 12½x17	3 50	
D.X., "	4 25	
D.X.X., "	6 25	

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.		
Bessemer Steel—		
I.C., usual sizes	3 15	
I.C., special sizes, base...	3 25	
20x28.	6 75	

Charcoal Plates—Terne.		
Dean or J. G. Grade—		
I.C., 20x28, 112 sheets	6 25	
I.C., Terne Tin	7 75	
I.C., Orion	6 25	
I.X., Orion	7 25	7 75

Charcoal Tin Boiler Plates.		
Cookley Grade—		
X X., 14x56, 50 sheet bxs	Per lb.	
14x60	0 05½	0 06
14x65.		

Tinned Sheets.		
72x30 up to 24 gauge.	0 06	0 06½
26	0 06½	0 07
28	0 07½	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price	
" from factory	1 75	
Refined	1 65	1 70
Horse Shoe	2 20	
Hoop steel, 1½ to 3 in. base,	1 85	1 90
extras for smaller sizes		
Swedish	4 00	4 25
Sleigh Shoe Steel	2 50	
Tire Steel	2 50	
Machinery	2 55	
Cast Steel, per lb	0 10	0 14
Toe Calk Steel	2 95	
Thos. Firth & Sons' Cast Steel	0 12	0 14
Russian Sheet, per lb	0 10½	0 11
Tank Plates, 1-5 and thicker.	2 00	2 25
Boiler Rivets	4 50	5 00

Boiler Tubes.

1½-inch.		
2		
2½		

Steel Boiler Plate.

3-16 inch		
-----------	--	--

3-16 inch		
¾ inch and thicker.		

Black Sheets.

18 gauge	2 40	
20	2 50	
22 to 24	2 55	
26	2 65	
28	2 85	

Canada Plates.

All dull, 52 sheets	2 50	
Half polished	2 60	
All bright.	3 10	

Iron Pipe.

Wrought pipe, per 100 feet, ¾ to ¾ inch,		
\$3.10; ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch,		
\$4.85; 1½ inch, \$6.50; 1½ inch, \$8.00; 2 inch,		
\$11.00. 2½ to 6 inch, discount 60 and 10 p.c.		
Galvanized, ¾ to ¾ inch, \$5.60; 1½ inch,		
\$5.60; ¾ inch, \$6.10; 1 inch, \$8.90; 1½ inch,		
\$12.00; 1½ inch, \$14.75; 2 inch, \$19.75.		

Galvanized Iron.

16 gauge	G.C. Comet.	Amer.	Head.	Queen's
18 to 24 gauge	4 00	3 25	3 90	4 25
26	4 25	3 50	4 15	4 50
28	4 50	3 75	4 50	4 75
Less than case lots, 25c. per 100 lb. additional.				

Chain.

Proof Coil, 3-16 in., per 100 lbs		
" ½ "	6 90	
" 5-16 "	4 40	
" ¾ "	4 00	
" 7-16 "	3 80	
" 1 "	2 75	
" ¾ "	3 55	
" ¾ "	3 45	
Trace, per doz. pairs.	3 60	5 90
Jack chain, iron, single, per		
doz. yards.	0 13	0 50
Jack chain, double, per doz.		
yards.	0 15	
Jack chain, brass, single, per		
doz. yards.	20	10

Copper.

English B. S., ton lots	0 19	0 19½
Lake Superior		
Bolt or Bar.		
Cut lengths, round, ½ to ¾ in.	0 23	0 24
round and square		
1 to 2 inches.	0 23	0 24

Copper.

Ingot.		
English B. S., ton lots	0 19	0 19½
Lake Superior		

Sheet.

Untinned, 14 oz., and light, 16		
oz., 14x48 and 14x60	0 23	0 23½
Untinned, 14 oz., and light, 16		
oz., irregular sizes.	0 23	0 23½
NOTE.—Extra for tinning 2 cents per		
pound, and tinning and half planishing 3		
cents per pound.		
Tinned copper sheets	0 26	
Planished	0 32	

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25	
" 35 to 45 "	0 24	
" 50-lb. and above, "	0 23	

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28	
Spun, per lb.	0 32	

Brass.

Roll and Sheet, 14 to 30 gauge, 5 to 7½		
p.c. off list.		
Sheet, hard-rolled, 2x4	0 24	0 2
Tubing, base, per lb.	0 24	0 25

Zinc Spelter

Foreign, per lb	0 07½	0 07½
Domestic		

Zinc Sheet.

cwt. casks	0 08½	
Part casks.	0 08½	
Lead.		
Imported Pig, per lb	0 04½	0 04½
Domestic, per lb		
Bar, 1 lb.	0 05½	
Sheets, 2½ lbs. sq. ft., by roll.	0 05	0 05½
Sheets, 3 to 6 lbs., per sq. ft.,		
by roll.	0 04½	0 05
NOTE.—Cut sheets ½ cent per lb. extra		
Pipe, by the roll, usual weights per yard, lists		
at 7 cents per lb. and 17½ per cent. discount		
NOTE.—Cut lengths, net price, waste pipe		
8-ft. lengths, lists at 7½ cents.		

Shot.

Net list, no discount.		
Soil Pipe.		
Discount, 60 per cent.		

Solder.

Per lb.	Per lb.	
Bar half-and-half	0 17½	0 18½
Refined	0 17½	0 17½
Wiping	0 16½	0 17
NOTE.—Prices of this graded according to		
quantity. The prices of other qualities or		
solder in the market indicated by private		
orders vary according to composition.		

Antimony.

Cookson's, per lb	0 11	0 11½
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White Lead.

Pure, Assoc. guarantee, ground in oil,		
25 lb. irons	6 00	
No. 1 do	5 82	
No. 2 do	5 25	
No. 3 do	4 87½	
No. 4 do	4 10	
Robertson's Chemically Pure	6 00	
Munro's Select Flake White	6 00	
Elephant and Decorators' Pure	8 00	
Brandram's B. B. Genuine	7 25	
James genuine	7 20	
" No. 1	6 75	

White Zinc Paint.

Elephant Snow White	0 08	
Pure White Zinc	0 08	
No. 1	0 06	
No. 2	0 05	

Dry White Lead.

Pure, casks	0 04½	
Pure, kegs	0 04½	
No. 1, casks	0 04½	
No. 1, kegs	0 04½	

Prepared Paints.

(In ½, ¾ and 1 gallon tins.)		
Pure, per gallon	1 00	
Second qualities, per gallon	0 90	
Barn (in bbls.)	0 70	0 90
The Sherwin-Williams Paints	1 20	
Canada Paint Co's Pure	1 00	1 10
Robertson's Pure	1 00	1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)		
Venetian Red, per lb	0 07	
Chrome Yellow	0 11	
Golden Ochre	0 08	
French	0 05	
Marine Black	0 09	
Green	0 08	
Chrome	0 08	
French Imperial Green	0 19	

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	1 35	1 40
cwt.		
Yellow Ochre (J.F.L.S.), bbls.		
per cwt.	2 75	
Yellow Ochre (Royal), per		
cwt.	1 10	1 15
Brussels Ochre	2 00	
Venetian Red (best), per cwt.	1 80	1 90
English Oxides, per cwt.	3 00	3 25
American Oxides, per cwt.	1 75	1 90

Canadian Oxides, per cwt.	1 75	1 90
Burnt Sienna, pure, per lb.	0 10	
" Umber,	0 10	
do aw	0 09	
Drop Black, pure	0 09	
Chrome Yellows, pure	0 18	
Chrome Greens, pure, per lb.	0 12	
Golden Ochre	0 03½	
Ultra marine Blue in 28-lb.		
boxes, per lb.	0 08	0 24
Fire Proof Mineral, per 100 lb.	1 00	
Genuine Eng. Litharge, per lb	0 07	
Mortar Color, per 100 lb.	1 25	
James' Gen. Red Lead, 100 lb	0 04½	
Pure Indian Red, No. 45, lb.	0 03	
Whiting, per 100 lb.	0 50	

Paris Green.

250 lb. casks	0 13½	
50 lb. drums	0 14	
1 lb. packages	0 15	
½ lb. "	0 16½	
1-lb. tins.	0 15½	

Sulphate of Copper.

Casks, for spraying, per lb.	0 06	
100-lb. lots, do. per lb.	0 07	

Putty.

Bladders in bbls.	1 80	
Bladders in 100 or 200 lb. kegs or bxs	1 95	
Bulk in bbls., per 100	1 65	
Bulk in less quantities	1 80	
25-lb. tins, 4 in case.	2 25	
12½-lb. tins, 8 in case.	2 30	
Quotations f.o.b. Toronto—10c. per 100 lbs.		
extra Hamilton, London, Guelph. For quan-		
ties less than 100-lbs., 2½c. per lb.		

Varnishes.

(In bbls.)	per gal.	
Carriage, No. 1	0 90	
Extra do.	1 02	
Body Varnish	4 00	
Furniture Varnish	0 45	
Extra do.	0 80	
Demar Varnish	1 40	
Hard Oil Finish	1 10	
Orange Shellac Varnish	1 90	
White Shellac	2 00	
Rubbing Varnish	2 40	
Brown Japan	0 70	
Elastic Oak	0 90	

Linseed Oil.

Raw, per gal. net.	0 52	
Boiled, per gal. net	0 55	
Outside points 1c. more than above figures		

Turpentine.

1 to 4 barrels, net.	0 65	
Outside points 1c. more		

Castor Oil.

In cases, per lb	0 10½	
Small lots	0 11½	

Cod Oil, Etc.

Cod Oil, per gal.	0 50	0 55
Pure Olive	1 20	
" Neatsfoot	90	

Glue.

(In bbls.)		
Common	0 08½	0 09
French Medal	0 12	0 12½
Cabinet, sheet	0 11	0 12
White, extra	0 16	0 18
Gelatin	0 22	0 30
Strip	0 16	0 18
Coopers	0 19	0 20
Al clear	0 09	

HARDWARE.

Ammunition.

Cartridges.		
B. B. Caps, Dom., 50 and 5 per cent.		
Rim Fire Pistol, dis. 45 p. c., Amer.		
Rim Fire Cartridges, Dom., 50 and 5 p. c.		
Rim Fire, Military, net list, Amer.		
Central Fire Pistol and Rifle, 18 p. c. Amer.		

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistol sizes, Dom., 30 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, American list. B.B. Caps, discount 45 per cent. Amer.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Riva and Nitro, 17 p.c.
Brass Shot Shells, 56 and 10 per cent.
Primers, Dom., 30 per cent.

Wads. per lb.
Best thick white felt wadding, in 1/2-lb. bags, 1 00
Best thick brown or grey felt wads, in 1/2 lb. bags, 0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 99
Best thick white card wads, in boxes of 500 each, 10 gauge 0 35
Best thick white card wads, in boxes of 500 each, 8 gauge 0 55
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge 0 25
Thin card wads in boxes of 1,000 each 8 gauge 0 25
Chemically prepared black edge grey cloth wads, in boxes of 250 each—
11 and smaller gauge 0 60
9 and 10 gauges 0 70
7 and 8 gauges 0 90
5 and 6 gauges 1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
11 and smaller gauge 1 15
9 and 10 gauges 1 40
7 and 8 gauges 1 65
5 and 6 gauges 1 90

Adzes.
Discount, 33 1/2 per cent.

Anvils.
Per lb., 0 10 0 12 1/2
Anvil and Vice combined, each, 4 50
Wilkinson & Co.'s Anvils, lb., 09 0 09 1/2
Wilkinson & Co.'s Vices, lb., 09 1/2 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised list.
Hollow Stearn's, per dozen 13 00 20 00
Adjustable Stearn's, each 4 50 6 50
Post-hole, Vaughan's, each 60 90

AXES.
Splitting Axes, 5 25 5 50
Chopping Axes—
Single List, per doz. 6 00 12 00
Double List, 11 00 18 00
Branch Axes, 40 and 15 p.c.
Broad Axes, 33 1/2 per cent.

Bath Tubs.
Zinc, discount, 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised list
Boxing extra

Anti-Friction Metal.
"Tandem" A, per lb., 0 23
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" " C, " 0 11 1/2
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Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.
Door.
Gongs Sargent's, 5 50 8 00
" Peterboro, discount 50 per cent.
American make, discount 66 2/3 per cent.
Canadian, discount 45 and 50 per cent.
Farn.
American, each 1 25 3 00

House.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders, per doz. 7 50 10 00
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47 1/2 to 50 per cent.
Expansive
Clark's 40 per cent.

Gimlet.
Clark's, per doz. 0 65 0 90
Diamond, Shell, per doz. 1 00 1 50
Nail and Spike per gross 2 25 5 20

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 90

Blind and Bed Staples.
All sizes, per lb. 7 1/2 0 12

Bolts and Nuts.
Norway Bolts, full square 70
Common Carriage Bolts, 5-16 & under 50
" " 3/4 and larger 35
" " 1/2 and larger 70
Machine Bolts, all size 60
Coach Screws 75
Sleigh Shoe Bolts 75
Blank Bolts 60
Bolt Ends 65
Nuts, square 4 1/2 c.
Nuts, hexagon 4 c.
Tapping Nuts 70
Tire Bolts 65 and 10
Stove Bolts 65 and 10

Boot Cakes.
Small and medium, per M. 4 50
Small heel, per M. 4 5

Broilers.
Light, dis. 65 to 67 1/2 per cent.
Reversible, dis. 65 to 67 1/2 per cent.
Vegetable, per doz., dis. 37 1/2 per cent.
Henis, No. 8, " 6 00
Henis, No. 9, " 7 00
Queen City " 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 00 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll 0 30
Tarred lining, per roll 0 40
Tarred roofing, per 100 lb. 1 45
Coal Tar, per barrel 3 75
Pitch per 10 lb. 0 60
Carpet felt, per 10 lb. 2 1 1/2

Full Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in.

Butta.
Brass.
Wrought Brass, dis. 10 p.c. revised list.

Cast Iron.
Loose Pin, dis. 60 to 60 and 10 per cent.

Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Gen. Bronzed, per pair 0 40 0 65

Cards.
Horse per doz. 0 60 1 00

Carpet Sweepers.
Bissell, per doz. 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz. 29 00
Grand Rapids, " 33 00

Carpet Stretchers.
American, per doz. 1 00 1 50
Bullards, per doz. 6 50

Castors.
Bed new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
Nos 31 and 32, per gross. 8 50 9 50

Cement.
Canadian Portland. 2 65 2 90
English " 2 80 3 00
Belgium " 2 50
Canadian hydraulic 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per gross 0 45 0 75
White lump, per cwt. 0 60 0

HOOKS.			NAIL PULLERS.			RULES.			TACKS BRADS, ETC.		
Cast Iron.			German and American..... 1 85 3 50			Boxwood, dis. 75 and 10 p.c.			Per cent.		
Bird Cage, per doz.....	0 50	1 10	NAIL SETS.			Ivory, dis. 37½ t. 40 p.c.			Strawberry box tacks, bulk..... 75 and 10		
Clothes Line, per doz.....	0 27	0 63	Square, round, and octagon,			SAD IRONS.			Cheese-box tacks, blue d..... 85 and 10		
Harness, per doz.....	0 72	0 88	per gross..... 3 38 4 00			Mrs. Potts, per set..... 65			Trunk tacks, black and tinned..... 85 and 10		
Hat and Coat, per gross.....	1 00	3 00	Diamond..... 12 00 15 00			N. P., per set..... 80			Carp. tacks, blu. d and tinned..... 80 and 10		
Chandelier, per doz.....	0 50	1 00	NETTING.			SAND AND EMERY PAPER			(in kegs)..... 40		
Wrought Iron.			Poultry, 50 and 5½ per cent. for McMullen's.			Dominion Flint Paper, 47½ per cent.			Cut tacks, blue d, in dozens only..... 75 and 12½		
Wrought Hooks and Staples, Can., dis. 47½ per cent.			OIL.			B & A sand, 40 and 2½ per cent.			¼ weights..... 60		
Wire.			Canada refined (Toronto)..... 0 13½			Emery, 40 per cent.			Swedes, cut tacks, blue d and tinned—		
Hat and Coat, discount 60 per cent.	0 60	0 70	Sarnia Water White..... 0 15			SASH CORD.			In bulk..... 80 and 20		
Belt, per 1,000.....	0 60	0 70	Prime Water..... 0 14			Per lb..... 0 20 0 50			In dozens..... 75		
Screw, bright, dis. 65 and 10 per cent.			American w. w..... 0 16½			SASH WEIGHTS.			Swedes, uph. lsters., bu k..... 85 and 10		
HORSE NAILS.			Pratt's Astral..... 0 18			Sectional, per 100 lbs..... 1 40 1 75			brush, blue d and tinned, bulk..... 50		
"C" brand 50 p.c. dis.			OILERS.			Solid..... 1 25			gimp, blue d tinned & japanned..... 75		
"M" brand 50 p.c.			McClary's Model galvan. oil			SAWS.			Zinc tacks..... 30		
"P. B." dis. 50 p.c.			can, with pump, 5 gal.,			Hand, Disston's, dis. 12½ to 15 p.c.			Leather carpet tacks..... 60		
Acadian, 50 and 20 p.c., countersunk head.			per doz..... 0 00 9 00			S. & D., 40 per cent.			Copper tacks..... 50		
HORSESHOES.			Zinc and tin, dis. 50, 50 and 10.			Crosscut, Disston's, per ft..... 0 35 0 55			Copper nails..... 52½		
Iron Shoes..... F.O.B. Toronto.			Copper, per doz..... 1 25 3 50			S. & D., dis. 35 p.c. on Nos. 2 and 3.			Trunk nails, black and tinned..... 70 and 12½		
Light, medium, and heavy..... 3 50			Brass..... 1 50 3 50			Hack, complete, each..... 0 75 2 75			Clout nails, blue d and tinned..... 70 and 10		
Snow shoes..... 3 75			Malleable, dis. 25 per cent.			" frame only..... 0 75			Chair nails..... 40		
Steel Shoes.			PAIS.			SAW SETS.			Cigar box nails..... 40		
Light, all sizes..... 3 75			Galvanized, per doz..... 1 85 3 00			"Lin oln," per doz..... 5 50 6 00			Patent brads..... 40		
Featherweight..... 5 00			PICKS.			SCALES.			Fine finishing..... 45		
Toe weight (steel)..... 6 00			Per doz..... 6 00 9 00			Gurney Scales, 50 p.c.			Picture frame points..... 25		
If shipped from factory, Montreal, 10c. per keg less.			PICTURE NAILS.			H. S. & M. Scales, 50 p.c.			Lining tacks in papers..... 10		
ICE PICKS.			Porcelain head, per gross..... 1 40 3 00			Champion 60 per cent.			" in bulk..... 15		
Star, per doz..... 3 00 3 25			Brass head..... 0 40 1 00			Fairbanks Standard, 45 p.c.			" solid heads, in bulk..... 80		
KETTLES.			PIPE CUTTING MACHINERY.			Dominion, 60 p.c.			Saddle nails in papers..... 10		
Brass spun, 7½ p.c. dis. off new list.			Forbes Patent Die Stocks.—Curtis & Curtis,			Richelieu, 60 p.c.			" in bulk..... 15		
Copper, per lb..... 0 30 0 35			Mfrs Bridgeport, Conn.			Chatillon Spring Balances, 25 p.c.			Tinting buttons, 22 line, in dozens only..... 60		
American, 60 and 10 to 65 and 5 p.c.			No. 30 Hand Machine, range ¼ to 2 in. R. & L..... \$ 50 00			SCREENS.			Tin capped trunk nails..... 15		
KEYS.			No. 38 Hand Machine, range 1½ to 4..... 100 00			Door patent per doz..... 6 00 12 00			Zinc glazier's points..... 5		
Lock, Can., dis., 50 p.c.			No. 56 Hand Machine, range 2½ to 6..... 175 00			Wind w, per doz..... 2 00 3 00			Double pointed tacks..... 85 and 20		
Cabinet, trunk, and padlock			PLANES.			SCREW DRIVERS.			TAPE LINES.		
A.M. per gross..... 1 60			Wood, bench, Canadian dis. 55 per cent.			Sargent's, per doz..... 0 65 1 00			English, ass skin, per doz..... 2 75 5 00		
KNOBS.			American dis. 55.			SCREWS.			English, Patent Leather..... 5 50 9 75		
Door, japanned and N.P., per doz..... 0 90			Wood, fancy Canadian or American, 37½ to 40 per cent.			Wood, F. H., iron, and steel, 82½ and 5 p.c.			Chesterman's each..... 0 90 2 85		
Bronze, Berlin, per doz..... 2 75 3 25			Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.			" F. H., brass, dis. 75 and 5 p.c.			steel, each..... 0 80 8 00		
Bronze, G. mine, per doz..... 6 00 9 00			Miscellaneous, dis. 25 to 27½ per cent.			" F. H., bronze, dis. 67½ and 5 p.c.			THERMOMETERS.		
Screw, per gross..... 1 30 4 00			Bailey's Victor, 25 per cent.			" R. H., 62½ and 5 p.c.			Tin case and dairy, dis. 75 to 75 and 10 p.c.		
KNIVES.			PLANE IRONS.			Drive Screws, 82½ and 5 per cent.			TINWARE.		
Clau s bread, cake, and paring knives, \$7 60 doz sets net. to 10 per cent.			English, per doz..... 2 00 5 00			Bench, wood, per doz..... 3 25 4 00			Stamped, dis., Assn. list, 80 per cent.		
Christie, bread, cake and paring knives, \$7 00 doz. sets, with 10 p.c. off.			PLIERS AND NIPPERS.			iron..... 4 25 5 75			Japanned, prices on application.		
Hay knives, spear point, L. or T handle, 60 10 and 5 per cent.			Button's Genuine, per doz pairs, dis. 37½ 40 p.c.			SCYTHES.			Pieced, prices on application.		
Lightning, per doz..... 6 50 8 40			Button's Imitation, per doz..... 5 00 9 00			Discount, per doz. net..... 4 50 6 00			TRANSOM LIFTERS.		
Health's, \$7.75 net.			German, per doz..... 0 60 2 60			SCYTHE SNATHS.			Payson's per doz..... 2 60		
LANTERNS.			PULLEYS.			Canadian, dis. 50 p.c.			TRAPS. (Steel.)		
Cold Blast, per doz..... 7 00			Hothouse, per doz..... 0 55 1 00			SEARS.			Game, Newhouse, dis. 40 p.c.		
LEMON SQUEEZERS.			Axle..... 0 22 0 33			Heinisch, dis. 50 and 10 p.c.			Game, H. & N., P. S. & W., 65 p.c.		
Porcelain lined..... 2 20 5 60			Screw..... 0 27 1 00			Clau s, full nickel, 50 and 10 p.c.			Game, steel, 72½, 75 p.c.		
Galvanized..... 1 80 3 85			Awning..... 0 35 2 50			" japanned handles, 67½ p.c. off.			TROWELS.		
King, wood..... 2 25 2 90			PUMPS.			Seymour or Heinisch tailor shears, 15 p.c.			German, per doz..... 4 75 6 00		
King, glass..... 4 00 4 50			Canadian cistern..... 1 40 2 25			SHOVELS AND SPADES.			Brade's..... 5 00 10 50		
All glass..... 1 20 1 30			Canadian pitcher spout..... 1 15 2 00			Canadian, dis. 40 and 15 per cent.			S. & D., discount 35 per cent.		
LINE.			PUNCHES.			SNAPS.			TWINES.		
Fish, per gross..... 1 15 2 50			Saddlers, per doz..... 1 00 1 85			Harness, German, dis. 35 to 37½ p.c.			Bag, Russian, per lb..... 0 21		
Chalk..... 1 90 7 40			Conductors..... 9 00 15 00			Acme..... 3 00 5 00			Wrapping, mottled, per pack..... 0 50 0 60		
LOCKS.			Tinners solid, per set..... 0 00 0 72			Lock, Andrews..... 4 50 11 50			Wrapping, cotton, per lb..... 0 17 0 18		
Canadian, dis. 50 p.c.			" hollow, per inch..... 0 00 1 10			SOLDERING IRONS.			Mattress, per lb..... 0 30 0 45		
Russell & Erwin, per doz..... 2 00 2 20			RAKES.			2 lb., per lb..... 0 30			Staging..... 0 27 0 35		
Cabinet.			Cast steel and malleable Canadian, list dis. 60, 10 and 5 p.c. revised list.			3 lb., per lb..... 0 33			Broom..... 0 30 0 55		
Eagle, dis. 30 p.c.			New Nicholson horse rasp, dis. unt 60 p.c.			WROUGHT SPIKES.			VISES.		
Padlock.			Globe File Co.'s rasps, 60 and 10 to 70 p.c.			Discount, 35 to 40 per cent.			Hand, per doz..... 4 00 6 00		
English and Am., per doz..... 50 6 00			Heller's Horse rasps, 50 to 50 and 5 p.c.			SQUARES.			Bench, parallel, each..... 2 00 4 50		
Scanlinian, "..... 1 00 2 40			RAZORS.			Iron, per doz..... 1 65 2 90			Coach, each..... 6 00 7 00		
Eagle, dis. 15 to 17½ p.c.			Geo. Butler & Co.'s..... 8 00 18 00			Steel, dis. 70 per cent. revised list.			Peter Wright's, per lb..... 0 12 0 13		
MACHINE SCREWS.			Baker's..... 7 50 11 00			Try and bevel. dis. 5½ to 52½ p.c.			Pipe, each..... 5 50 9 00		
Iron and Brass.			Wade & Butcher's..... 3 40 10 00			STAPLES.			Saw, per doz..... 6 50 13 00		
Flat head, discount 25 p.c.			Arbenz's..... 9 00 18 00			Galvanized..... 3 00			WIRE.		
Round Head, discount 20 p.c.			Theile & Quack's..... 7 00 12 00			Bright..... 2 75			Brass and copper wire, 10 per cent. advance on the list		
MALLETS.			RIVETS AND BURRS.			STOCKS AND DIES.			Smooth Steel Wire, base, \$2.50 f.o.b. factory points. List of extras: Nos. 2 to 5 advance 7c. per 100 lb.—Nos. 6 to 9 base—No. 10, advance 7c.—No. 11, 14c.—No. 12, 20c.—No. 13, 35c.—No. 14, 47c.—No. 15, 60c.—No. 16, 75c.—Extra net per 100 lb.: Cooped wire, 60c.—tinned wire, 82c.—oiling, 10c.—special heavy ailing wire, 3c.—spring wire, 8c.—1-let steel wire, 75c.—bright soft drawn, 15c. in 50 and 100-lb bundles net. 10c.—in 25-lb. bundles net, 1c. packed in casks or cases, 15c.—ba ging or papering, 10c.		
Tinsmiths', per doz..... 1 25 1 50			Carriage, Section, Wagon Box Rive s, et. (Steel), 60 p.c.			American dis. 25 p.c.			Fine Steel Wire, discount 25 per cent. factory points		
Carpenter's, hickory, per doz..... 1 25 3 75			Carriage, Section, Wagon Box Rivets, etc, (Norway Iron, 55 p.c)			STONE.			Broom Wire, per lb..... 0 05 0 05½		
Lignum Vitae, per doz..... 3 85 5 00			Black M Rivets (Steel), 60 p.c			Washita..... 0 28 0 60			Clothes Line Wire, 19 gauge, per 1,00 feet..... 2 75 3 00		
Caulking each..... 60 2 00			Black and Tinned Rivets, 60 p.c.			Hindostan..... 0 06 0 17			WIRE FENCING.		
MATTOCK.			Extras on Iron Rivets in 1-lb cartons, ½c. per lb.			" slip..... 0 09 0 09			Galvanized, 4 barb, 2½ and 5 inches apart..... 3 00		
Canadian, per doz..... 8 50 10 00			Extras on Iron Rivets in ¼-lb. cartons, 1c. per lb.			Labrador..... 0 13			Galvanized, 2 barb, 4 and 6 inches apart..... 3 00		
American, 60 and 10 p.c. off 1st.			Copper Rivets & Burrs 35 p.c dis., and cartons 1c. per lb. extra, net			" Axe..... 0 15			Safety Barbed Wire..... 3 00		
MEAT CUTTERS.			Extras on Tinned or Coppered Rive s in ¼-lb. c rtions, 1c. per lb.			Turkey..... 0 57			Galvanized, plain twist..... 3 00		
American, dis. 30 to 32½ p.c			Burrs, iron or steel 50 per cent.			Arkansas..... 0 00 1 50			Terms 2 per cent. in 10 days.		
German, 15 per cent.			Termin, 4 mos. or 3 per cent. cash 30 days.			Water-of-Ayr..... 0 00 0 10			WIRE CLOTH.		
MILK CAN TRIMMINGS.			RIVET SETS.			Scythe, per gross..... 3 50 5 00			Painted Screen per 100 sq ft., net..... 1 30		
Discount, 25 and 10 per cent.			Canadian, dis. 3 to 37½ per cent.			Grind..... 15 00 18 00			WRENCHES.		
NAILS.			ROPE, ETC.			Stove Polish.			Acme 35 to 37 per cent.		
Quotations are:			7-16 in. and larger, per lb. 10½			Enameline			Agriculture 1 70 to 7 and 10 p.c.		
Cut..... Wire.....			Sisal..... Manila.....			Washita..... 0 28 0 60			Standard dis. 6c. 6 and 10 per cent.		
2d. and 3d..... \$2 05 \$2 55			½ in. and 5-16 in..... 11½			Hindostan..... 0 06 0 17			Genuine dis. 30 to 32½ p.c.		
31..... 2 70 3 20			Cotton..... 12			" slip..... 0 09 0 09			Diamond dis 33½ to 35 per cent.		
4 and 5 l..... 2 65 2 95			Russia Deep Sea..... 14½			Labrador..... 0 13			Towers' Engineer, each..... 2 00 7 00		
6 and 7 d..... 2 45 2 85			Lush Yarn..... 8½			" Axe..... 0 15			" S. p-r doz..... 5 80 6 00		
8 and 9 l..... 2 20 2 70			New Zealand Rope..... 9½			Turkey..... 0 57			G & K Pipe, per doz..... 3 40		
10 and 12 l..... 2 15 2 60						Arkansas..... 0 00 1 50			Burell's Pipe, each..... 3 00		
16 and 20 d..... 2 10 2 60						Water-of-Ayr..... 0 00 0 10			ocket per doz..... 0 55 2 90		
30, 40, 50 and 60d. (base)..... 2 05 2 55						Scythe, per gross..... 3 50 5 00			WRINGERS.		
Steel Cut Nails 10c extra.						Grind..... 15 00 18 00			Leader..... per doz. \$67 00		
Brads and finishing nails, special sizes, 80 p.c. from new list.						STEP LADDERS			Royal Canadian..... 58 00		
						No. 4—3 dozen in case, net cash..... \$4 50			Royal American..... 49 00		
						No. 6—3 dozen in case, net..... 7 50			Discount, 45 per cent.; terms 4 months, or 3 c 30 days. Price as f.o.b. London, Hamilton, Toronto, Brockville or Montreal.		
						Best grade, fr m 3 to 10-ft. long, per foot, 16c					
						2nd grade, 3 to 10-ft., per foot, 10c.					

STAR

HACK SAWS
BUTCHER SAWS
BRACKET SAWS

THE STAR HACK SAW

Has a file temper, and one 5-cent blade will do more work than \$1 worth of files. It will cut off an inch square bar of steel 100 times without filing.

THE STAR BUTCHER SAW

Will cut four times as long without filing as any other kind in use. It will cut off a half-inch rod of iron 30 times.

THE STAR BRACKET SAW

Is taking the place of all other kinds.

None of these Star Saws are to be filed, as the price is less in the cost of filing. They are taking the place of all other saws as fast as they become known.

For Sale by Most Hardware Dealers

We also make a Power Hack Saw which may be found in most machine shops and iron working establishments, and should be found in all.

MILLERS FALLS CO. 28 Warren Street
NEW YORK

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting —and— Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

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Treasurer.

ESTABLISHED 1849.

THE BRADSTREET MERCANTILE AGENCY

THE BRADSTREET COMPANY,
Executive Offices Proprietors.

NO. 346-348 BROADWAY NEW YORK

Offices in the principal cities of the United
States, Canada, the European Continent,
Australia, and in London, England.

The Bradstreet Company is the oldest and, financially,
the strongest organization of its kind—working in one
interest and under one management—with wider rami-
fications, with more capital invested in the business, and
it expends more money every year for the collection and
dissemination of information than any similar institution
in the world.

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McKinnon Building, Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent

PERSONS addressing advertisers
will kindly mention having
seen their advertisement in
Canadian Hardware and Metal
Merchant.



"BUILD TO-DAY THEN,
STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
—Longfellow.

DO YOU?

WISH THUS TO BUILD
an
advertisement
in the
CONTRACT-
RECORD.

TORONTO
will bring you
tenders from the
best contractors

PERFECTION AUTOMATIC REVOLVER.

NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding lock. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



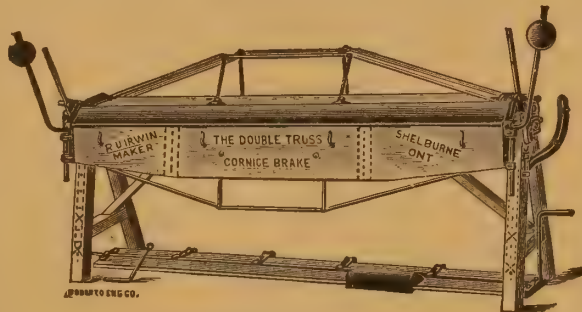
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Forehand Arms Co.

Manufacturers of
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Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. **SHELburne, ONT.**

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.
Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark.

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

International Expositions

Special Prize

Gold Medal at Atlanta, 1895

TRADE MARK.



TO INSURE COMFORT AND SAFETY

... USE ...

"Maltese Cross" Inner Tubes

AND



The Toronto Rubber Co.

Limited

185 Yonge Street - TORONTO, CANADA

For Pure Ready-Mixed Paint
always buy **ROBERTSON'S**. No
better or purer has yet been
made. Their enormous sale
proves their popularity.

THE JAMES ROBERTSON CO., Limited

263-285 King Street West, TORONTO

Telephones 819, 1511 and 1292.

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Get the Best—EXTRA 1, 2 and 3.
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--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MAY 13, 1899.

NO. 19



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49, Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
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CANADIAN OFFICE—318 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,

266 and 267
West St., New York

GOOD WORK

MEANS

GOOD PAY.

"Queen's Head"

INSURES

GOOD WORK.

John Lysaght, Limited

BRISTOL. ENG.

MONTREAL.

25 Ideas

for 1 cent.

THEY are yours for a post card—
twenty-five ideas in Radiators.
Each idea represents a style of
its own for a definite purpose, for all
folks who use (or want to) Radiators
that won't leak, and give quick, posi-
tive circulation in a minute after the
heat is turned on.

Twenty-five ideas for
a cent—isn't it worth your while to send for them
and thus know all about the largest Radiator Man-
ufacturers under the British Flag? The origina-
tors of the Screw Nipple connection that does
away with bolts, rods, packing, and absolutely
prevents even a suspicion of a leak.

The
Safford
Radiators

The Dominion Radiator Company

LIMITED

TORONTO, ONTARIO

RICE LEWIS & SON

(LIMITED)

ARTHUR B. LEE, President.

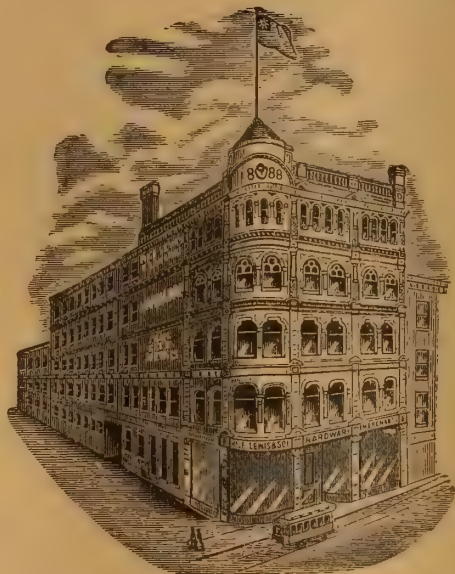
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MANTELS
GRATES
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FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

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Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
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SAVAGE ARMS CO., Utica, N.Y., U.S.A.

CANADA'S BEST SCALES



GURNEY

Accurate and
Durable.

Quality considered, the
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market.



THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIPPERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. O. Heinisch' on its Shears, Labels, etc. and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

PERFECT SATISFACTION
at **REASONABLE COST**

is the verdict of all users of

Island City Floor Paints



They dry in **8** hours.

Made from the best materials, under our own supervision. Send for a trial order, and you will be **ANOTHER SATISFIED CUSTOMER.**

P. D. DODS & CO.

100 Bay Street,
TORONTO.

188 and 190 McGill Street,
MONTREAL.

ALL OUR

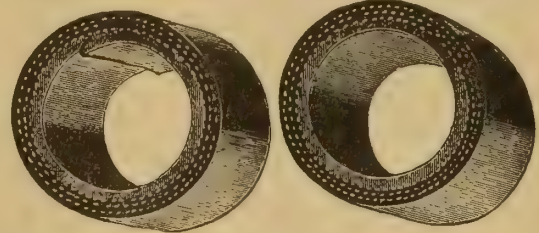
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IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

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The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

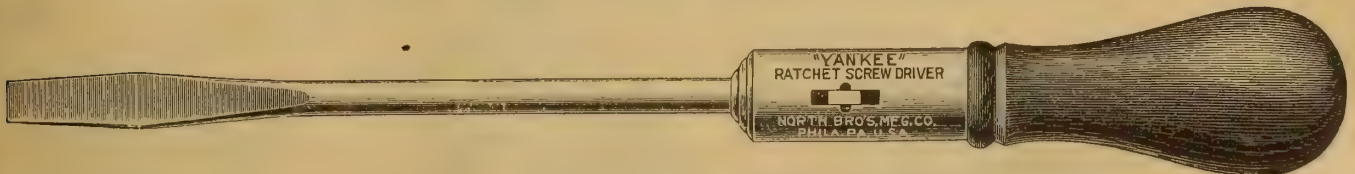
Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
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OTHER TOOLS ARE VERY GOOD TOOLS, BUT

"YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

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CAVERHILL, LEARMONT & CO.	-	-	-	MONTREAL
FROTHINGHAM & WORKMAN	-	-	-	"
ALEXANDER MACPHERSON & SONS	-	-	-	"
LEWIS BROS & CO.	-	-	-	"
SEYBOLD, SONS & CO.	-	-	-	"
RICE LEWIS & SON, Limited	-	-	-	TORONTO
JOHN BOWMAN HARDWARE AND COAL CO.	-	-	-	LONDON
HOBBS HARDWARE CO.	-	-	-	"
WOOD, VALLANCE & CO.	-	-	-	HAMILTON

Descriptive Circulars will be mailed
on application.

North Bros. Mfg. Co.
Philadelphia, Pa., U.S.A.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

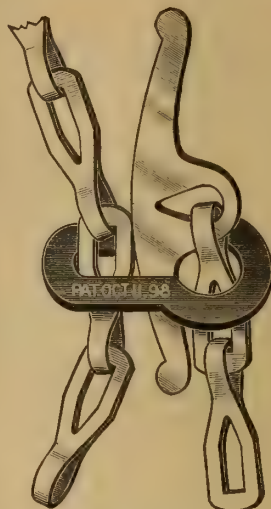
"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899)

which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.



Ring easily ADJUSTED until
Toggle is in place, then abso-
lutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.

DAVID MAXWELL & SONS

ST. MARYS, ONT., CANADA

"MAXWELL FAVORITE CHURN"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

LAWN MOWERS

High and Low Wheels, from 12-in to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

WHEELBARROWS.

In Four different sizes.

If your Wholesale House does not offer you these articles

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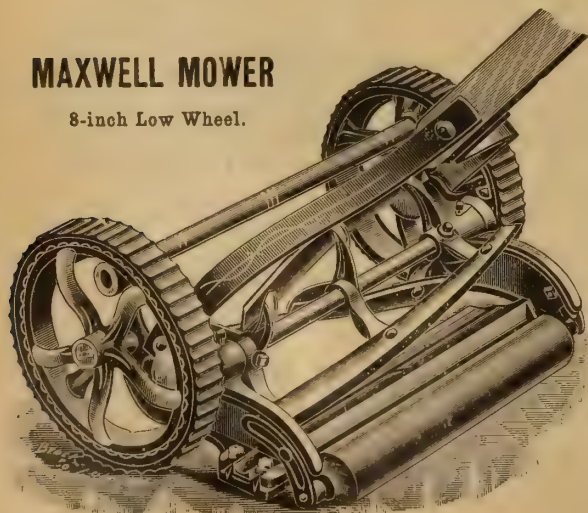
Steel Frame



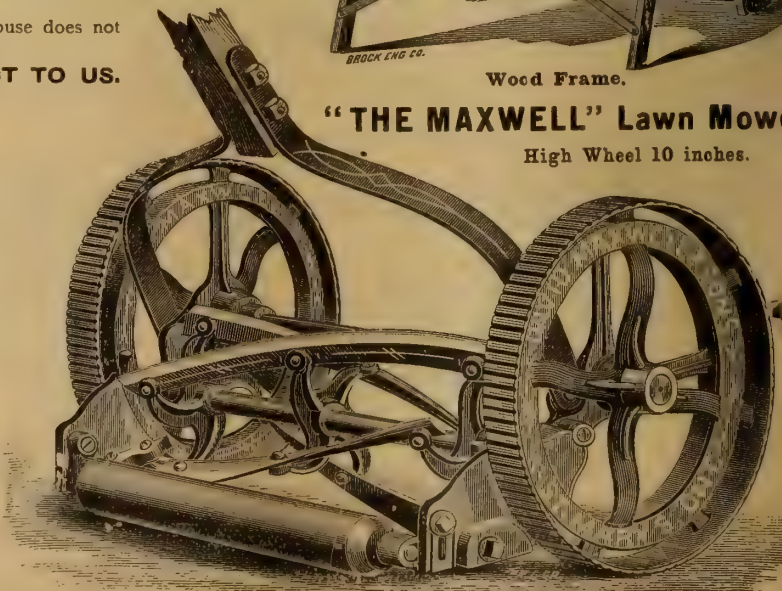
Wood Frame.

MAXWELL MOWER

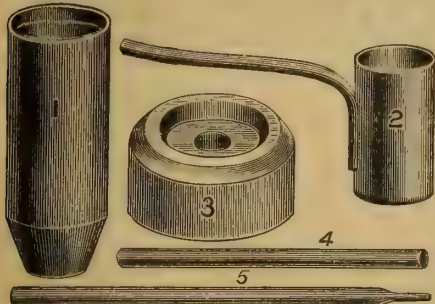
8-inch Low Wheel.

**"THE MAXWELL" Lawn Mower**

High Wheel 10 inches.



RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

Lamplough & McNaughton, Montreal

Steel Tray Wheelbarrows

**Tubular
Meaford (Columbus)
Railroad or Navvy**

With Steel Trays (Pan American).

Eastern Agent —

ALEXANDER GIBB

22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

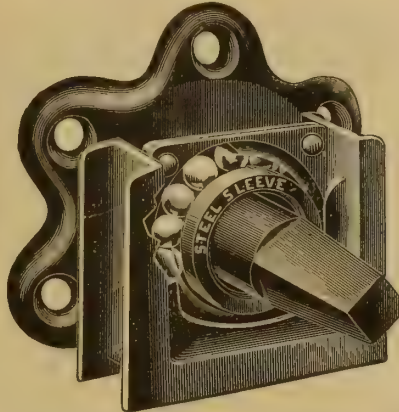
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



This is our Latest Stand, with Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

W. L. HALDIMAND & SON

32 and 34 St. Dizier St., Montreal, Eastern Agents.

HAMILTON, CANADA

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

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The E. B. EDDY CO., Limited

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Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

SEWALL & DAY CORDAGE CO.

45 BROAD STREET

Established 1835.

 **BOSTON, MASS.**



**This Brand is a guarantee of the Best
Binder Twine Made.**

For sale in Manitoba and N. W. Territories by
MASSEY-HARRIS CO., Limited, Winnipeg, Man.

In Ontario and Quebec by
**JOHN BOWMAN HARDWARE AND COAL CO.,
London, Ont.**

LEWIS BROS. & CO., Montreal, Que.

T. BURROWES ROSS

Canadian Representative

417 Board of Trade Building,

 **MONTREAL.**

IT PAYS TO BUY
THE BEST.



This Trade Mark is
on every Tag.

"Plymouth"

make and sell **good** twine as low as **good** twine can be sold. "Plymouth" does not make or sell **poor** twine at any price.

PRUDENT PEOPLE PREFER "PLYMOUTH."

DISTRIBUTERS, PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.

HEADQUARTERS.

Sanderson Percy & Co.

FINE COLORS, WINDOW GLASS, ETC.

----- TORONTO -----

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

The Modern **STOVE POLISH**



CAKE.



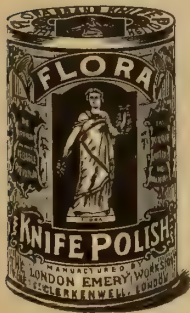
PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

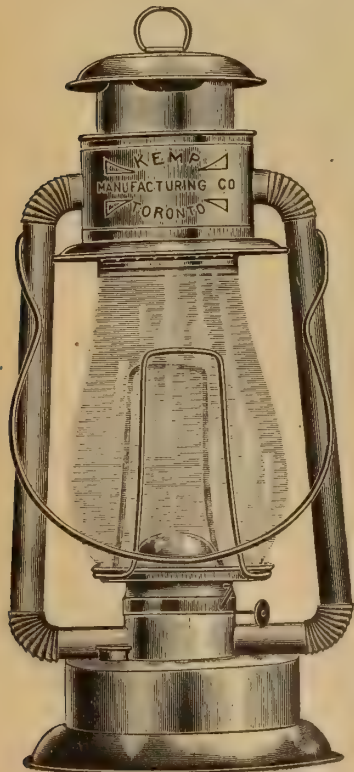


Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S COLD BLAST LANTERN

The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...**TORONTO,**
CANADA.



President, JOHN BAYNE MacLEAN, Montreal.
Treasurer, HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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LONDON, ENG. - - - - 109 Fleet Street, E.C., J. M. McKim.
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WINNIPEG - - - - - Western Canada Block, J. J. Roberts.
ST. JOHN, N. B. - - - - No. 3 Market Wharf, J. Hunter White.

Subscription Canada, \$2.00 Great Britain, \$3.00
Published every Saturday.

Cable Address { Adscript, London
Adscript, Canada

**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

GLASS 25 TO 50c. DEARER.

HARDWARE AND METAL last week intimated that an advance in window glass in Toronto was probable in the near future.

The expectation has already been realized, for, this week, an advance of 25c. in star and 50c. in double diamond is announced. The new prices are as follows :

United inches.	Star.		Double.	
	50 ft.	100 ft.	50 ft.	100 ft.
Under 26	\$2 00	\$3 75	\$3 20	\$6 00
26 x 40	2 15	4 05	3 40	6 65
41 x 50		4 50		7 00
51 x 60		4 75		8 25
61 x 70		5 10		9 00
71 x 80		5 50		10 00
81 x 85		6 10		11 50
86 x 90		7 25		13 50
91 x 95				15 00
96 x 100				18 00
101 x 105				20 50
106 x 110				23 50

The cause of the advance is the decrease

in the discounts by the manufacturers in Belgium, and not only this, but importers in Canada have been advised that the manufacturers, on account of the coal strike, cannot give positive information as to when shipments will be made.

The advance in the wholesale price of glass in Toronto during the past 12 months is marked. For instance, a year ago the quotation for star glass in 50-foot boxes, first break, was \$1.45, about 38 per cent. lower than at present, and for double diamond, \$4, or 50 per cent. lower than present figures.

BUSINESS MEN SHOULD HELP.

MEN who possess qualities which have enabled them to make their business a success, should lend these qualities to the making of better laws, municipal, provincial and federal.

Good laws are only possible when those who have the immediate making of them are elected to the various legislative bodies by voters of merit and integrity.

No class is better fitted, either to govern or to appoint those who shall govern, than the business class, for the simple reason that government, to be good, must be businesslike.

The reason that we have so much poor government and so little good government is that the proportion of the business element in the councils of the various governing bodies of the country is so small, compared with that of the professional politician, who is devoted to grinding axes for himself or his party.

Every merchant who places the cause of good government first, and that of party second, is helping along the good cause.

THE FUTURE OF PRICES.

A GOOD many people engaged in the metal and hardware trades are asking themselves whether the present high range of values is likely to be maintained.

Whatever may be in store for the distant future, there is no prospect of a decline in the near future.

The formation of the various trusts in the United States has undoubtedly assisted, to some extent, in the elevation of prices. But there is another, and even more powerful factor than this at work : There is the law of supply and demand.

In both America and Europe, there is a demand which exceeds to an unusual extent that which is usually experienced. The blast furnaces are in many instances oversold, and the fact that some of them have already sold the total output for the year to come imparts further strength to the situation.

The opinion obtains among a good many that, in some lines of manufactured goods, there has been an undue appreciation in values. Doubtless, this is true. And where there is an inflation there will, doubtless, some day be a contraction, but, where there is an inflation, those who had the making of it have matters so much in their own hands that that they will be able, in most instances at any rate, to hold their position, possibly even after the general market takes a weak turn. But at present there are no signs of a weakening market.

Reserve force is the quality which gives a man the power to grasp opportunities.

OUR RELATIVE TRADE WITH THE EMPIRE AND ALL FOREIGN COUNTRIES.

HOW important to Canada the trade of the British Empire is one begins to learn after a perusal of the trade returns. During the fiscal year ending June 30 last, the foreign trade of the Dominion was \$294,850,689, an increase of about 20 per cent., compared with that of the previous year.

Of the total trade, \$145,305,711, or 49.28 per cent., was with the British Empire, the balance being divided among over two score of other countries.

The foreign trade during the fiscal year 1897 was \$249,244,274, of which \$113,909,982, or about 45.70 per cent., was with the British Empire.

Taking the exports alone, the proportion taken by the British Empire to that by all other countries is still larger.

Last year it was 67.48 per cent., against 59.61 per cent. for 1897.

The grand total of exports was \$164,152,683, of which \$110,779,358 were taken by the British Empire and \$53,373,325 by all other countries. In 1897 the grand total was \$137,950,253; that taken by the British Empire being \$82,238,023, and that by all other countries, \$55,712,230.

This shows that the exports of the Dominion to the British Empire increased over \$28,500,000, or 34.71 per cent.

The exports under the different general classifications were as follows:

	British Empire.	Foreign countries.
Mine	\$ 579,211	\$10,970,876
Fisheries	5,543,960	5,025,128
Forest	14,666,433	16,765,861
Animals and their pro- duce	34,720,880	5,647,380
Agricultural products ..	21,352,556	4,341,711
Manufactures	5,253,881	5,046,463
Miscellaneous	121,102	475,131
Grand total	\$82,238,023	\$55,712,230

While the imports are not as favorable to goods produced within the Empire as are exports of the Dominion to the different countries under the British flag, yet there is an increase of \$2,854,394, or 9.67 per cent. over 1897. In spite of this increase, however, the proportion of foreign goods imported was larger than during the previous

year, the percentage being 72.81 and 71.54 respectively.

The total value of the goods imported from the British Empire was \$34,526,353 in 1898 and \$31,671,956 in 1897. The following table shows how these figures were made up:

	Free Goods.	Dutiable Goods.	Total.
British, 1898 ..	\$11,231,037	\$23,295,316	\$34,526,353
Foreign, 1898 ..	44,841,881	51,329,772	96,171,653
British, 1897 ..	10,333,298	21,338,661	31,671,959
Foreign, 1897 ..	34,739,958	44,882,104	79,622,065

It will be seen from this that the importation of foreign goods increased 20.66 per cent., compared with an increase of only 9.67 in goods from the British Empire.

It will be remembered that the rebate of 12½ per cent. of the duty which was concurrent with the fiscal year 1898 was enjoyed by Germany, Belgium and a number of other countries besides Great Britain. This fact, of course, tended to minimize whatever preferential advantage there was in the tariff as far as the Mother Country was concerned. But it is significant that from the country which is Great Britain's chief competitor (the United States) the increase of imports was 27.86 per cent., a larger gain by 7 per cent. than that of all foreign countries taken together.

Under the present condition of affairs the British Empire is unquestionably the market for Canadian products, but it is equally certain that the Dominion is a much better customer of the United States than she is of Great Britain.

But British exports to this country are increasing, and they would increase still more if the manufacturers there would take vigorous steps to prospect the Canadian market. With the rapid development of the manufacturing industries in the United States, to say nothing of the close proximity of that country to this, it is only natural that there should be an increase in their trade with Canada. But the apathy of British manufacturers in regard to the Canadian market has made the increase all the more possible.

With a more aggressive policy in regard to Canadian trade, aided by the 25 per

cent. preferential tariff, British manufacturers should be able to regain a great deal of the lost ground.

CROPS AND THE TRADE OUTLOOK.

THE backward nature of the season and the lightness of the rainfall this spring have naturally occasioned some concern in Canada. The appearance, therefore, of the crop report of the Agricultural Department of Ontario has been awaited with more than usual interest.

Fall wheat is, of course, the most important crop in the Province, and it is regretted that the weather of the winter and of the early spring has caused a great deal of injury. A quantity of wheat is, however, still being held by farmers for higher prices. Much clover, too, has been winter-killed.

Vegetation is naturally, like the season, backward, but the recent improvement in the weather has made great changes for the better, and made the conditions for spring seeding much more favorable than they were.

An abundant bloom is reported to be on the orchard trees, but a good deal of injury appears to have been done to the peach trees in the Essex district. In the western part of the Province, small fruits, particularly raspberries, were somewhat affected by the winter.

In regard to live stock, the report is, on whole, favorable.

Taking the situation as a whole, the report should not cause alarm. Wheat, while the chief, is not the only staple product of the farm, and what is likely to be lost in regard to fall wheat it is possible to regain at least in part by spring wheat. Then, the live stock, vegetable, fruit and dairying conditions are fairly good.

But granted that the agricultural conditions of Canada are a great deal less favorable than they were a year ago, there are others which are a great deal more favorable. The mining industry—gold, coal, iron, etc.—is immeasurably so, while the lumber industry, which a year ago was most unpromising, is now promising.

As far as the manufacturing and industrial interests are concerned, they were never in the history of the country in as good condition.

DEARER PIG IRON.

ROGERS, BROWN & CO., the firm in the United States which does the largest export trade with Canada in pig iron, have advanced their prices \$1 per ton.

The price of No. 2 foundry iron at the new figure is \$17.40 in bond, Toronto.

There have been some transactions on the Toronto market this week in United States pig iron, although at the old figures. In one transaction 4,000 tons were concerned. The order was for future delivery.

Pig iron is also dearer upon the British market, and exchanges to hand state that quotations are higher than they have been for many years.

There has been practically no pig iron exported from the United States to Great Britain of late, but **HARDWARE AND METAL** has been informed by an expert from across the border that the recent advances in Glasgow permit a reopening of the export trade.

It is evident that for the present, at any rate, the export of pig iron from the United States to Great Britain will depend a great deal upon the market conditions. Not long since one of the largest importers expressed a doubt regarding the permanency of the export trade in pig iron to Great Britain. Time, however, will tell.

TINPLATES ARE QUOTED HIGHER.

Cable advices from England report rapid advances during the past week in tinplates.

As a result of this advance, wholesalers in Toronto have marked up their quotations to the retail trade.

Redipped plates are quoted 25c. per 100 lb. higher, and the prices of bright coke plates and of terne plates have been advanced 35 and 50c., respectively.

A MERCHANT FROM ALGOMA.

HARDWARE AND METAL, last week, received a visit from Mr. T. J. Foster, of Foster & Co., Richard's Landing, St. Joseph Island, Algoma.

Mr. Foster was originally a Hamiltonian. He went to Algoma several years ago to teach school. From a teacher he became a clerk in a general store, after serving seven years in which capacity he became a merchant. He carries a stock of practically all

kinds of merchandise and does a business of about \$25,000 annually. In addition to their regular business, Foster & Co. do a large trade in lumber, pulp wood and farm produce, which they purchase from the farmers and ship to outside points. A good deal of hemlock and hardwood are shipped by the firm to the United States.

Mr. Foster reported that business during the past winter had been decidedly good.

RANGE BOILERS ADVANCE.

The advance in range boilers anticipated by **HARDWARE AND METAL** has materialized, prices on galvanized this week being marked up \$1.

Galvanized are now quoted as follows: 30-gallon, \$7; 35-gallon, \$8; 40-gallon, \$9. The discount on copper boilers has been reduced, the figure now being 10 per cent., instead of 20 per cent. as formerly.

Business in range boilers is good.

AMONG TORONTO RETAILERS.*Fishing Tackle Display.*

Many of the Toronto retail hardware dealers are devoting attention to fishing tackle. The reason given by one of them for the display made of these goods in his store was that May 24 is the fisherman's day, just as Thanksgiving Day is the hunter's favorite holiday. Though I do not know whether this could be said of the fishermen in all sections of the country, it would be no mistake to give as much attention to these goods as possible. The better display made the more sales will result, so it is advisable to have as large a stock as possible, for quantity is an important part of a fishing tackle display. It would be better to have more than is likely to be sold in a season than to have less, as the margin of profit on these goods is so large, and their keeping qualities so good, that it would be better to have a big sale of them and some stock left over than to clean out a small stock. One good display now in a down-town window is made on a stand with steps about eight inches high and six inches deep. Pointed rods of various qualities ran from top to bottom. Large lines were shown on the upper steps and hooks of various sizes in their boxes on the bottom step. The steps between were devoted to smaller lines, floaters, sinkers, flies, reels, etc. Price tickets were everywhere. To make a display of a smaller stock a circular board covered with white or yellow cloth might be arranged near the back of the window. To the outside of this board the lines might be attached, with one

end of each running to the centre. A couple of rows of hooks could then be attached by hanging them on pins stuck into the board. Then, a row of floaters each with one end pointing to the centre might be put on. Flies might be attached so that the line end of them would be partly hidden by a good reel which would be the centre-piece of the display. Rods running from the corners, sides and top of the window, would complete a good display.

Milkers' Supplies.

Now that the cheese factories are commencing, and farmers are preparing to send their milk to the factory, it would be advisable to make a push with supplies for this purpose. Milk cans will, of course, be made the most of, but smaller articles, such as pails, pans, thermometers, etc., should not be left to sell themselves. Make them go. Possibly the best way to do this would be to get a good pail and hang it on the end of a stout fishing pole from an upper window, and, at the same time, put an assortment of these goods in front of the store, with a card drawing attention to their price. They should be advertised.

Lawn Utensils.

The healthy state of the grass makes it advisable to draw attention to one's lawn mowers, garden hose, watering cans, etc. There will soon be a demand for them, and a good display will help to bring buyers to the place where the display is made. A merchant in a country town might make a good move by employing a boy to mow any lawn in his town free any day between the 22nd and the 29th. This would be a good advertisement, and, which is more important, it would give the merchant an excuse for making a personal canvass of the persons accepting the offer, and would likely result in sales of some lawn or garden tools, if not a lawn mower.

THE RAMBLER.

CAST IRON SOIL PIPE.

In view of the strength of the raw material and an actually heavy demand, quotations on cast iron soil pipe are decidedly firm. The market has been further stiffened by the announcement that the consolidation of soil pipe manufacturers, for which negotiations have been going on for several months, is likely to be consummated at an early date. A sharp advance is likely to follow such a consolidation, as the increase in prices so far made has not kept pace with the rise in the cost of raw materials.—Metal Worker.

Faithful as business is, it requires to be watched, or it will flit.

HELPING OUT DULL SEASONS.

MOST every hardwareman knows what is meant by dull seasons, says a writer in Iron Age. There are very few localities which do not experience them. These dull seasons come at different times of the year in different sections of the country. The successful methods for increasing trade at such times will not vary much in the different sections.

SPECIAL SALES.

Special sales will do much to help out dull seasons. They attract trade which otherwise would not be received at such times. There are always some things in a hardware store which will make attractive inducements. There are goods which have been displayed and have become slightly shopworn. The chances are that these articles are exactly as good for all practical purposes as their brighter companions. Then there are broken assortments, each article of which is as good and as bright as it ever it was, but broken assortments are "stickers." The articles, therefore, are not as valuable to the merchant as they once were; while for the customer they are as useful as ever. During the dull seasons the store and stock should be thoroughly ransacked for such odds and ends. If complete lines are found which have been moving too slowly, let them be brought out with the rest. Place prices on them which will be bound to sell them. In some cases it is very desirable to forget the cost mark altogether. It is better to have what the goods will bring in cash than to have the "stickers" on the shelves. The cash soon can be turned into new, salable goods. It is a very good plan always to be on the lookout for job lots of goods which can be utilized at such times.

ADVERTISE THE SPECIAL SALES.

These special sales should be well advertised. It pays to advertise them. In fact, good advertising is the one thing that can make them successful after arrangements inside the store have been correctly completed.

BE FRANK; ADVERTISE ACTUAL SITUATION.

The public should be told all about the goods and the prices. If the goods are shopworn, say so, and let the public know that otherwise they are exactly as useful as they ever were. Let people know what can be saved by buying them. If a job lot has been purchased at a low figure, the public should know that it was done for the benefit of the people. If a broken line is being closed out, tell that, and explain why it is to the advantage of the store to close it out at reduced prices. People can see by the prices that it is to their advantage to buy. Honest reasons should always be given for

reduced prices. The public have faith in honest advertising. People will respond to it. Price reductions without apparent reasons may be honest enough as far as the merchant is concerned, but the public are skeptical. People have very often been deceived by low prices.

WHAT IS ACCOMPLISHED.

This plan has been helpful in making dull seasons better. Not only does it increase the receipts, but it is beneficial to the merchant. It cleans up his stock, and gives him money and room for new goods.

HOW TO DO IT.

The experience of one hardware house that followed this plan was very satisfactory. The bargain table was kept full of attractive merchandise during the dull season. It was persistently advertised. Every Saturday the table was filled with some one specialty that had been offered for the one day at a very low figure. On these days the other bargain merchandise was displayed on a counter nearby. The plan helped materially to keep up the daily receipts, and a great deal of merchandise that could not have been sold as regular stock was turned into cash. A good example was found in a stock of 200 or 300 kettle covers. These had been stored in a tin rack in the basement. When the floor of the store was mopped the water dripped through and spotted them. Most of these rust spots were on the outside, the inside remaining bright and clean. These points were told in the advertising. On two different Saturdays these covers filled the bargain table. They had been advertised at 2c. each, or six for 10c. Most every customer took three of them, and many took six. At the end of the two special days there were scarcely two dozen damaged covers left in the store. Had they not been sold at this reduction they would have been nearly a total loss. The covers were strong and durable, but the stock was far too large for the average amount of trade at that particular store. This is only one of many examples of quick turning merchandise into cash to the mutual advantage of buyer and seller.

ENGLAND'S OLDEST BLACKSMITH SHOP.

Some of the blacksmiths' shops which our readers and their travelers are in the habit of frequenting are quaint in the extreme, says Ironmongers' Chronicle. The village smith seems to remind one of the primitive trader who made up in his own workshop so many of the articles of kitchen use. In the village of Geddington, in Northamptonshire, there is an ancient smithy which is said to be the oldest smith's shop in England. Close by stands one of those elegant crosses erected by Edward I.,

to the memory of Queen Eleanor. We can well imagine that the smith's shop, with its ancient sun dial as its contemporary, and the thatched cottages, with emblems of the blacksmith's art scattered about, give the place a charming old-world appearance.

A MODERN HARDWARE STORE.

With the advent of spring, T. Batty & Co., Norwich, have removed to the new store, now built on the old site, and the pleasure which the extensive premises give them, as well as the complete up-to-date store fixtures, make the troubles of the past cramped quarters fade into insignificance.

Their store is 32 x 75 ft., and three flats and cellar, all of which are for reserve and heavy stock. Two of the largest sheets of plate glass in the west are used, being 10 x 12 ft., and an idea of the window display space may thus be obtained. On one side the shelving for the hardware is of the drawer system, that is, the shelving forms a framework, each box constituting a separate drawer, and when one is withdrawn it in no wise interferes with or displaces the others. The partitions are $\frac{3}{4}$ inch thick, thus allowing drawers, which have bevel fronts and $\frac{1}{4}$ inch overlapping edges, when pushed home to be perfectly dustproof. Six hundred boxes in all are used. The other side of the store is nicely shelved for tinware and prepared paints, and special shelving built on the bin principle for bolts. Inside, underneath the hardware counter, are the nail bins—of 200 lb. capacity—which slope 6 inches towards the front, thus allowing scale tray to stand on the floor while nails are raked into it. It also keeps spilled nails inside, and, more particularly, gives a nice, uniform front to the counters.

In the centre of the store is a neat stand for high-class stoves and seasonable goods. The counters and shelving are finished in natural wood. The store is bright with incandescent lights, and on the whole reflects credit upon the firm's enterprise and shows the marked contrast between ancient and modern store arrangements, as well as the value placed on complete store equipments by up-to-date business men.

S. McK.

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MONTREAL MOULDERS' STRIKE.

THE demand of the Montreal iron-moulders for a minimum wage of \$2.50 per day, the abolition of all piecework, and the controlling of the shops by a committee of union men, to which the employers refused to accede, has resulted in the men going out on strike. The demand, which followed the arrival in the city of Mr. M. J. Keough, of Cincinnati, second vice-president of the Ironmoulders' Association of North America, was made upon the masters by circular, and, after those to whom it was addressed had met and discussed its contents, it was decided not to comply with its demands, but, instead, to offer an advance in wages of 10 per cent. This the men refused to accept, and the employers were just as resolute in sticking to their decision of a 10 per cent. increase only, the same to date from May 1. Neither side was willing to yield a further point.

So, matters went on until the evening of May 4, when Mr. Keough had a conference with the employers, but without any progress towards a settlement being made. On the following night, the men held a meeting, and decided to strike, the decision to go into effect the next morning, May 5.

True to their resolve, some 300 iron-moulders failed to report for work, and, as one of them expressed it, "The blast didn't go on." By this action of the men, following 13 foundries were affected: The Grand Trunk Foundry, the Canadian Pacific, Caledonia Ironworks, Parker's Foundry, Canada Switch Company, W. Rodden & Co., The Lawrie Engine Company, Garth & Co., H. R. Ives & Co., Warden King & Son, Drummond, McCall & Co., P. Ames & Son, and Beaupre's Foundry. Some four or five foundries were not affected by the strike, for the reason that they do piecework most of the time, and the conditions were such that the men were satisfied. One of these foundries, Crevier's, has advanced the scale 10 per cent., and, as the pay there made averages \$2 per day, this brings the amount up to a point that is acceptable to the union. In some of the shops vacated by the moulders it is said that the pay was in some cases as low as \$1.25 per day.

On the afternoon of the day that the strike came into force, the employers held a protracted meeting, all the firms mentioned above being represented, except Beaupre's. The decision come to was a unanimous one to hold out. One of the officials of the meeting, speaking of the matter afterwards, said that the strike was harder on some than others, but all, even those most awkwardly situated, had agreed to hold out. Some firms had reported that they could now close down

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their foundries quite conveniently, as they had plenty of castings well ahead, while those who were in a hurry for work, said that they could import the castings quite as cheaply from the United States as to pay such wages as those demanded. "The great fight," continued the gentleman in question, "the main object of the strike is to compel the employers to recognize the Moulders' Union, which we will never do. We have refused to do it in the past, and we will not give in now. It is the old question of a union trying to compel the employers to recognize their authority and to pay to inferior men as good wages as those earned by the very best workmen."

Later on, it was announced that Messrs. Beaupre had agreed to the minimum of \$2.50 per day and the appointment of a committee for the settling of disputes with the men. Therefore, in this case, the strike lasted but a day. Like terms have also been agreed to by Messrs. William Clendinneng & Son—one of the shops from which the men were not called out.

With these exceptions, the strike remains practically as it was when it first came into operation; and both sides, as usual, are confident of victory. A number of the strikers, it may be added, have already left for Boston, Worcester and other cities in the United States.

THE ORIGIN OF FIREPLACES.

The fires of early times were, without doubt, logs of wood heaped together and lighted upon the hearth. Over this fire probably the pot was affixed which contained the meal to be cooked, says Ironmongers' Chronicle. As the knowledge of the use of metals increased, men found that by arranging these logs of wood forming the fire on bars above the ground, a bright fire was the sooner obtained. Hence the arrangement of the andiron, which was originally simply a bar of iron placed across the hearth, supported on blocks of stone or burnt clay, across which and resting on them the logs were placed. Gradually an upright standard in front, and a leg formed out of the cross-bar at the back, removed the necessity for the stone block or clay lump, and the complete andiron became a regular addition to the fireplace. Perhaps the oldest form of andirons known were found at Colchester and at Hartlip in Kent; they are of very simple construction, though with a little attempt at ornament in the top of the two standards; but as men grew more skillful in the working of iron, they showed their skill in the making of useful things in the house, making them ornamental as well as useful.

Chas. E. McLaren, general merchant, Port Clyde, N.S., is dead.

PROFITS IN THE SHEFFIELD IRON TRADE.

HEADS of leading industrial establishments in Sheffield say, we are told, that never in their experience have they known trade to be in a more healthy state than it is at the present time. But they are careful to add—as regards volume. While in many works every department is being carried on to its utmost capacity, and the output is larger than ever, the net profits in many branches are by no means keeping pace with the increased turnover. And they do not say whose fault it is. They should really protect themselves by dragging in the workmen—a manufacturer's grumble is never really complete without this; it hides so many manufacturing sins. But there is a further complaint; it is as regards the difficulty with which manufacturers have to contend in obtaining, as promptly as they desire, supplies of raw material. Then, there is one more difficulty; it is the utter dislocation of prices constantly going on in consequence of the advancing cost of production.

It is regarded as one of the misfortunes of firms engaged in some of the standard trades of the city—the steel, files, saws and kindred industries—that there is practically no combination amongst them. The result is that, in times of extraordinarily good trade, they are unable to lift their prices in any proportion to the advances they have to pay for material, fuel, etc. They say that without such combination they find it impossible to obtain such better prices for their finished goods as will in any way recoup them for the extra amount they have to pay to produce them. Firms may be named whose turnover during the last year exceeded anything they had ever known, but whose profits were not more than they were in some years when trade was in a normal position. So runs the story; but how many sane men can believe it?

We have known something of Sheffield trade now for a good many years, and are firmly convinced that such stories as these are all more or less bunkum. Take files, for example. Is there any reason on the face of the earth why a single file should be sold at less than a fair price—of course, providing the tool is a decent hand-made thing? Yet, what has past experience shown? A manufacturer is called upon by the representative of a good house—a partner, in fact. "What are you paying for files?" he asks, in a casual way. You tell him your discount, and he makes a cut. He may or may not secure the order. In the case we have in view, he secured the order; but there was no reason in the world why he should have underquoted an equally good house, which had been doing business

with the same firm for years. Nor was there any reason why the files should have been machine-cut instead of hand-cut—as which they were sold. No; the only combination needed in the Sheffield steel trade is one of honesty.—The Consular Journal.

ACETYLENE GAS LAMPS.

THE use of carbide for generating gas for illuminating purposes seems to be rapidly on the increase, and having now been in use, to a limited extent, for two years, it evidently has come to stay. Acetylene gas lamps possess many advantages over oil lamps. In the first place, the light is much stronger and brilliant, not affected by wind or motion, and, consequently, is a most desirable outside lamp for vehicles, boats, mines, camps, etc.

Then, again, carbide can be transported to much better advantage than kerosene. A 40-gallon barrel or tank filled with calcium carbide will produce twenty times more light than a barrel of oil. As was the case when coal oil and gasoline were first introduced, people generally were afraid to experiment with acetylene, but the practical knowledge obtained by coming in contact with and using the same has dispelled that idea, and, consequently, acetylene lamps are becoming more general daily.

The Ontario Lantern Co., of Hamilton, have expended considerable money developing this line, and, in addition to the "Victor" lamp, which they placed on the market some months since, and which has proved a success, they are now contemplating bringing out a stationary lamp for use in exposed places. This lamp will be so constructed as to burn for 15 hours without recharging.

This company make a specialty of lamps, lanterns, gas and kerosene burners and fittings, and their factory is equipped with the most modern machinery for this class of work, the cost of which represents a large amount of capital.

Mr. Walter Grose, of Montreal, is largely interested in this enterprise, and controls the sale of the production of this factory.

HAMILTON SMELTING WORKS.

Andrew Trew Wood, M.P., merchant; Albert Edgar Carpenter, manufacturer; Charles Seward Wilcox, manufacturer; John Milne, manufacturer; Wm. Southam, publisher; Aaron Morley Wilcox, manufacturer, and Charles Edward Doolittle, manufacturer, all of Hamilton, Ont., are applying for incorporation under the style of The Hamilton Steel and Iron Co., Limited, with a capital of \$2,000,000 in 20,000 shares.

The purpose of the company is to mine iron, nickel, copper and other ores; to crush, smelt and manufacture metals therefrom; to carry on a general smelting and rolling mill business, manufacturing iron and steel rails and all kinds of muck bar and refined roll bar iron, and Bessemer and other kinds of steel. Their charter will also enable them to acquire or construct mills, factories, tramways, telephone or telegraph lines, vessels, wharf, etc. The headquarters and principal works of the company are to be in Hamilton, Ont.

The close season for black bass in Lake Erie, west of Point Pelee, this year, is from May 15 to July 15, inclusive, stead of April 15 to June 15, as usual.

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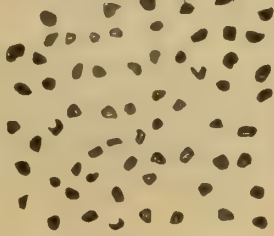
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AGENTS FOR CANADA.

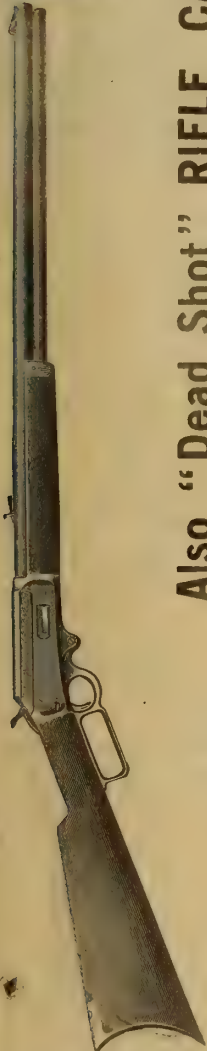
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HARDWARES IN THE DAYS OF JUVENAL.

WHAT descriptions of hardware were commonly in use during the first century of the Christian era is a curious and interesting subject of inquiry, and it is not a little singular that we should find enlightenment on such a subject in the satires of Juvenal, Perseus, and other poets of that remote period, says Hardwareman. In the first satire of Juvenal mention is made of the razor, and the hunting spear, and the familiar hardware term, "case-hardened," is used as describing the iniquitous city of Rome. In the second satire there is allusion to metal shields, knives, and bits; and in the succeeding satire we read of hob-nails, oil-cans, knives, and door fastenings:

All the fastenings of the shops chained, are fixed and silent. Does it not mean strong padlocks with chains, such as are made in Willenhall today? Here is a quotation also from the third satire: "What forge or anvil is not weighed down with chains? The greatest amount of iron used is employed in forging fetters; so that you may well fear that enough be not left for ploughshares, and that mattocks and hoes may run short." In the fourth satire there is a suggestion of door springs (usually regarded as a modern invention) in the line:

The folding doors flew open on ready-turning hinge.

The buckler, helmet and javelin occur in the fifth satire, and in the phrase "Viridem thoraca" there is an allusion to a mimic piece of armor worn by children when playing at soldiers, and the production of which was doubtless a feature of the craft of

THE SMITH OF ANCIENT ROME.

Steel, foul-smoking lamps, greaves, swords, metal "drinking-cups shaped like a shell," are named in the sixth satire. The drinking-cup concha was most probably a large shell, encased in gold or other metal, for a cup, like the nautilus of the middle ages. Other drinking vessels are also mentioned, notably the flagon and the urna, a measure holding 24 vextarii, or about three gallons. Mention is made of trumpets and brazen kettles, basins and bells, and also of a "bungling, senseless axe." In the seventh satire, there are allusions to the spade, and the line "The mule's hoof shines unsullied" suggests the horseshoe. Does the line "Drawing out wool with the oblique iron" refer to some primitive method of weaving or carding? An old Roman proverb, "Though you've lost the hatchet, save the haft," is alluded to in the eighth satire, and there is also a reference to the drag-chain:

"He locks his wheel with the frequent drag-chain."

Giffard, the translator, remarks that the introduction of the drag-chain has a local proprietary. Rome, with its seven hills,

had just as many necessities for the frequent use of the sufflamen. Reference is also made to the

BOLTS OF THE CITY GATES.

In the tenth satire are allusions to the bellows and the furnace, and also to pitchers, basins, frying-pans and platters. A curious and interesting reference is made to an inspector of weights and measures, whose mission it was, according to Dryden's translation, "To pound false weights and scanty measures break." Pincers and a sword-forging anvil are mentioned. "An iron-bound chest" for valuables is referred to in satire eleven, possibly the precursor of the fire-proof safe, and bone-handled knives, and sharp carving knives are also mentioned. Satire twelve makes mention of a silver salver, a bowl to hold three gallons, and a bascandœ, the latter being a metal basket, surrounded by rush-work, by way of ornament. In satire thirteen, Juvenal deplores that the world is passing through its ninth age, "an era far worse than

THE DAYS OF IRON.


for whose villany not even Nature herself can find a name, and has no metal base enough to call it by." Satire 14 alludes to dice-boxes, made of horn, box, or ivory, and also to cupping vessels, which were made of horn, brass, and afterwards of glass. Swords of Molossian make, that had "seen the hard service of the Punic wars," and big pots smoking with vegetables are also named, ploughs and corn-blades (sickles), distaffs, a brass-bound chest for gold, wineflasks, and the art of soldering with lead also come within the poet's purview. A seething cauldron, and a spit are mentioned in satire 15, and there is also an allusion to the work of primeval smiths, who labored rather in the arts of peace than in the arts of war:

But man, fell man, is not content to make
The deadly sword for murder' impious sake;
Tho' ancient smiths knew only to produce
Spades, rakes, and mattocks, for the rustic's use;
And guiltless anvils in those ancient times
Were not subservient to the soldiers' crimes.

The sixteenth satire mentions the soldiers of Antiochus who were "shod with gold, treading that underfoot which men fight with iron." Buckles for belts, and golden chains are also enumerated among the hardware productions of those old times.

Persius alludes to the "melting down of metals," to the seria, "a tall, narrow, long-necked vessel, frequently used for holding money"; to Saturnian brass; to the "rapid wheel" of the potter; to lamp-black; to "double scales of doubtful balance"; to "panting bellows"; to "the felloe, the hinder wheel, and the second axle"; a "counterfeit tinkle," though merely gold laid over brass (surely the original of the so-called Brummagem jewelry), and to other ancient, yet seemingly modern features of the hardware world.


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Coates Clipper Mfg. Co.
WORCESTER, MASS



Pullman Sash Balance Co.
Makers of the
"Pullman" Hardware Specialties
Main Office and Works,
Rochester, N.Y., U.S.A.



Size,
3/8-inch.
Cheapest IN THE WORLD.
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.



The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited

Ours is



The "Standard"

... Wickless Blue Flame Stove.



"Standard" because all others are claimed to be **"JUST AS GOOD."**

It has **"glass sight feed,"** showing flow of oil and insuring rapid and easy regulation of valve.

It has **measuring cup** for lighting, giving quick operation and preventing overflow of oil.

It has no wicks to keep clean, no joints to leak, no small parts to break, nor fine tubes to clog.

Made in eight styles and sizes, all mounted on steel encased frames, and for durability, beauty and convenience is **unequaled.**

For catalogue and prices, write us.

THE THOS. DAVIDSON MFG. CO., Limited, MONTREAL, P.Q.

"Gordon Crown"

GALVANIZED IRON

Dead flat, uniform in weight, workable quality guaranteed.

The number of sheets to the case is as follows :

	24	26	28 gauge
72 x 30	70	97	113 sheets
96 x 30	52	73	84 "

This is the **LIGHTEST IRON MADE.**

Prices upon application.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE :

Samuel, Sons & Benjamin
164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

TRADE IN OTHER COUNTRIES THAN OUR OWN.

JUST what opposition, by way of competition the various combinations will meet in the future cannot be foreseen, but indications point to a desire on the part of considerable capital to enter the lists against the aggregated capital, and there will undoubtedly be more or less of this in the future in those branches of trade where rival production is possible. New tinplate mills will encounter difficulties on account of the control of the necessary machinery equipment by the large producer. Various new enterprises are springing up in all directions, but it will be some time before the influence of these new concerns can be established.—Iron and Steel, Chicago.

TINPLATE MAKERS ORGANIZE.

A meeting of the tinplate manufacturers was held at Swansea, Wales, on Tuesday, at which it was mutually agreed to reestablish the manufacturers' association, and a committee was appointed to formulate a working agreement as to wages and prices. A majority of the mills in operation was represented, and we should think there is some prospects of an organization, more useful to the trade than the old association, being arranged. Last week we mentioned that Messrs. R. B. Thomas & Co., Limited, of Lydney and Lydbrook, had taken over Morewood's works. The statement has been contradicted in some quarters, but it is quite correct that the South Wales Works, Llanelly; the Cwmbwrla Works, Swansea, and the Burry Works, at Burry Port, are now owned by R. B. Thomas & Co., Limited, making this firm masters of 44 mills. The prospects of the trade are thought to be improving. Cokes, f.o.b. Swansea, are worth 11s. 3d. to 11s. 6d.—Iron and Steel Trade Journal, April 22.

PIG IRON HIGHER IN GREAT BRITAIN.

On the Glasgow Exchange, this week, there has been a sharp rise. In Scotch pig-iron warrants, and on Wednesday the market advanced to 56s., and closes to-day at 56s. 9½d., an advance of 2s. 7d. since last week. It is suggested that those who have since January been occupied in offering warrants in order to prevent speculative holders from realizing profits, are now satisfied, and that the market may advance much higher before prices are put back again. We cannot hear of any buying on the part of people who want iron out of store, nor do the returns show that any of this iron is going into consumption. Only once in 20 years have Scotch warrants touched their present price, and then the market fell away quickly to 45s. In 1889-90, hematite iron was worth 10s. a ton

more than it is now, and, in putting Scotch warrants at 56s., within 4s. of hematite, it appears that either the intrinsic value of Scotch iron has appreciated or else it is now at an artificial price. The latter is our conclusion. Since January, 10,000 tons of iron have been taken out of Connal's stores. At this rate, it would take seven years to exhaust the stock, so that, if warrants are cornered, there is no real scarcity of warrant iron. At Middlesbrough the growing demand for Cleveland pig iron is still steadily lifting prices. Makers now hold out firmly at 50s. for foundry iron, but they have so little to sell that buyers are taking and "cashing" warrants for prompt supplies. The high prices obtainable and the ease with which a much larger make could be disposed of would result in an enlargement of the make, but for the scarcity of coke. The strike of Belgian miners has sent more inquiries for coal and pig iron into the Middlesbrough market. No. 3 warrants close at 49s., an advance of 1s. per ton since last week. West Coast hematite warrants have been gradually improving all the week, and close to-day at 59s. 10½d., an advance of 1s. 2½d. since last Friday. Makers quotations average 61s. f.o.b. West Coast ports. At Birmingham yesterday makers of common pig iron continued to quote 50s. as their lowest price, and assert that they have already disposed of the bulk of their make for months ahead. Midland makes, such as Northamptonshire and Derbyshire iron sell at 52s. to 55s. The best classes of Staffordshire pig iron are very firm at quarter-day rates.—Iron and Steel Trades' Journal, April 22.

BRITISH IRON AND STEEL TRADES.

The London Economist says: "So far this year only seven extra iron furnaces have been put into blast in the three leading districts of Great Britain, which represents an annual increase of 170,000 tons, whereas we estimate an increase of 600,000 tons may be necessary to meet all our requirements. Prices of all descriptions of iron and steel have advanced considerably since the year began. Steel rails are 5s. to 7s. 6d. dearer. The best Staffordshire bars have risen 10s., hoops and sheets 5s., and galvanized sheets 15 to 20s.

"As the key of the position is held by the United States, it may be well to consider what are the prospects as to the renewal of competition from that country. As America produced last year nearly 12,000,000 tons, and more than 2,000,000 tons in excess of 1897, it is not unreasonable to suppose that that country may be able to

absorb 13,000,000 to 14,000,000 tons of pig iron for her own requirements during 1899. It will not be until her production is in excess of this huge figure that she will again be a competitor with this country."

NEW YORK METAL MARKETS.

PIG TIN — The stock of pig tin here is well in hand, although slightly large, and while the quantity of the metal given out for private circulation from an official quarter is apparently large, there is slight variation only in prices despite a considerable reduction in London quotations. The latter show a decline of about £3 per ton since the beginning of the week. In the New York markets values have receded somewhat, or to about 25.45 to 25.50 for lots of five tons or more, spot delivery, and 25.60 to 25.65 in ton lots.

COPPER — Buyers are still operating cautiously to all accounts, owing to the comparatively high cost of the metal. Deliveries on old contracts are more than usually liberal, however, and home consumption is seemingly larger, relatively, than export movement. There is no pressure to sell, however, although somewhat freer offering for delivery from June forward. In a retail way, Lake Superior ingot is quoted at 18¾c. upwards, but near future shipments were obtainable at 18½c. Electrolytic bars, etc., remain at about 17½ to 17¾c., and casting stock at 17 to 17¼c., according to brand and quantity.

PIG LEAD—Prices were kept well up to 4.45c. for ordinary domestic spot or near future delivery. In fact, the quantity offered at less than 4.45 was comparatively light, and for early delivery only. Still, a sort of "official" record was made down to the basis of 4.40c. for near future delivery.

SPELTER—Dealings are still rather slow in this market, but considerable is being done elsewhere, and prices are held firm at 6½ to 7c. for prime western, delivered in New York.

ANTIMONY—The market for regulus is very steady at 10½ to 11c., according to brand and quality.

TINPLATES—Sales of considerable quantities of American cokes have been made for delivery up to and including October at prices on the basis of \$3.87½ to \$3.90 f.o.b. mill, and the market is showing decidedly better tone.

IRON AND STEEL—Pig iron is fairly active, medium foundry and mill grades in particular, and, with some exceptions, the highest of recent prices are well maintained on near future deliveries.

Transactions in old material are mostly on a small scale in this locality. The demand is moderate also, with most offers 50c. to \$1 under the prices asked by holders.—N.Y. Journal of Commerce, May 11.

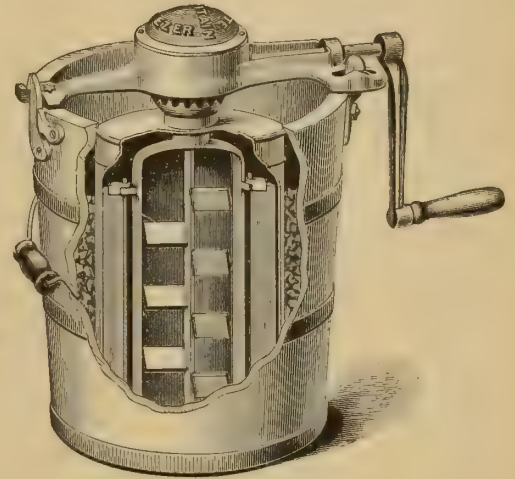
EVERY GOOD THING

PERTAINING TO

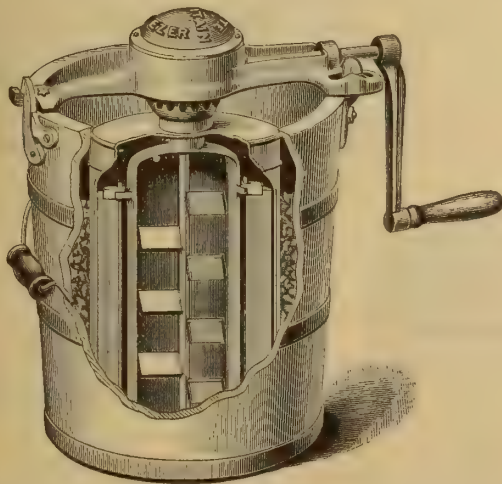
ICE CREAM FREEZERS

Originated with and is used in

WHITE MOUNTAIN FREEZER



IT EXCELS
ALL OTHERS.



Up-to-date
Easy to Sell
Customers all Satisfied

Sole Agents for the Dominion are

THE McCLARY MFG. CO.

London, Toronto, Montreal, Winnipeg
and Vancouver.

H. S. HOWLAND, SONS & CO.

Toronto.

MANUFACTURED EXCLUSIVELY BY

The White Mountain Freezer Co.

NASHUA, N. H., U. S. A.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL May 12, 1899.

HARDWARE.

THE activity in all lines of hardware continues, there being a good demand from retailers, and the volume of business is fully up to the average. The undertone to the market is firm and prices are maintained. Jobbers are exceedingly busy filling orders, and the prospects are encouraging for the future.

BARBED WIRE—Demand continues good, and prices are firm at \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—There is a fair movement of smooth steel wire on the base of \$2.50 f.o.b. Montreal and Hamilton.

FINE STEEL WIRE—Demand up to the average, with discounts 25 per cent. off the list f.o.b. at factory points.

BRASS AND COPPER WIRE—Trade is moderate, discounts being 50 and 2½ off on brass, and 45 and 10 per cent. off on copper wire.

FENCE STAPLES—The demand is steady at \$2.90 for bright and \$3.50 for galvanized.

OTHER STAPLES—Unchanged. Cooper and poultry netting, 15 per cent.; electrical, broom, bed, etc., 10 per cent.

WIRE NAILS—The movement continues large, and prices are steady at \$2.50 to \$2.60 as to quantity.

CUT NAILS—Trade in this line is fairly active at \$2.05 f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.B.

PRESSED SPIKES—The demand is fair and prices steady, with 40 per cent. discount.

GALVANIZED ROOFING NAILS—There is no change to note, prices being still 8c., with 25 per cent. discount.

HORSESHOES—Prices firm at the advance, under a fair demand. We quote as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S.

Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

HORSE NAILS—Demand up to the average and feeling steady. Discounts are 50 per cent. on Standard, and 50 and 20 on Acadia brands.

TACKS—Business active. We quote as follows: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—Unchanged. In dozens, 85 and 25 per cent.; and in bulk, 10 per cent. off list.

SCREWS—There is a good demand for screws. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—Trade is still active. Discounts are as follows: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—A fair trade is passing at

Eavetroughs

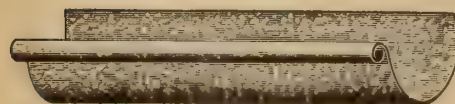
26 or 28 GAUGE.

SPECIAL DISCOUNT for orders, if not less than 1,000 ft. at one time.



"O. G."—with round bead on outside (cannot freeze under bead).

Sizes: 8, 10, 12 and 15 in. girth.



"HALF ROUND"—with round bead on outside.

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with square bead on inside.
Sizes: 8, 10, 12 and 15 in. girth.

Conductor Pipes

Galvanized

PLAIN OR CORRUGATED.

ELBOWS, SHOES, HOOKS, Etc., supplied, all kinds, for eavetroughing and conductor piping.

WE SHIP ORDERS QUICK.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER.



Other galvanized iron will do, they say, for some jobs; Apollo Best Bloom will do everything.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

steady prices. Discount on black and tinned rivets, 55 per cent.; ditto burrs 50 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—Demand good, and prices rule very firm. We quote the base on manila, 11¼c.; sisal, 10¼c.; lath yarn, 9¾c.

SHOT—Steady at 6c. for ordinary, and 6½c. for chilled.

WRINGERS—The tone is steady, with a fair demand at \$48 to \$60, as to brand, with 45 per cent. off list.

BUILDING PAPER—The demand is improving for all kinds, and prices show no material change.

WARE—A fair number of orders continue to come forward for enameled ware.

GREEN WIRE CLOTH—There is a good demand for this article, and values rule firm.

SPADES AND SHOVELS—An active movement is reported in this line at former discounts.

HARVEST TOOLS—There has been an improved inquiry, and a good many orders have already been booked.

CEMENT—A more active trade is reported in carload lots, but no large sales have been made. The tone of the market is firm. We quote as follows: Belgian, \$1.90 to \$2.10; English, \$2.30 to \$2.40, and German, \$2.45 to \$2.65 per cask ex wharf. Spot prices for prompt delivery are: English brands, \$2.35 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10 per cask, ex store.

FIREBRICKS—The arrivals this season to date have been 208,000. Demand is still good and prices show no change, sales being made at \$17 to \$23 per 1,000, as to brand ex wharf.

METALS.

The feature in this department of the trade has been the sharp advance in the price of pig iron. Business in all lines is active and the general tone of the market is firm.

PIG IRON—A sharp advance of \$1 to \$2 per ton has been established in the price of No. 1 Hamilton, with sales at \$18 to \$20 per ton. This is due chiefly to the continued strong foreign advices.

BAR IRON—The demand is still good and prices are firmly held at \$1.70 in car lots and \$1.75 in smaller quantities.

HOOP IRON—The feeling is firm at \$2.65 to \$2.70.

STEEL—A fair trade is reported at unchanged prices. We quote: Sleighshoe, \$2.45 to \$2.50; tire, \$2.45 to \$2.50; spring and machinery, \$2.60, and toe calk, \$2.90.

GALVANIZED IRON—In fair demand and firm at \$4.75 for No. 28 "Queen's Head," with "Comet" \$4.35.

Tinplates

"LYDBROOK" Best Coke.

"The Canners' Favorite."

"ALLWAYS"

The Best Charcoal.

"Standard of the world."

Import only.

A. C. LESLIE & CO.

MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

NO SCREWS

JUST BORE

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Junia," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

INGOT COPPER—Unchanged, but firmly held, at 19½ to 20c.

INGOT TIN—There is a good trade passing at 29c. for all sorts.

PIG LEAD—Trade fairly active, and prices firm at 4¼c.

LEAD PIPE—Unchanged, at 7c. for ordinary, and 7½c. for composition waste, with 17½ per cent. discount to the trade.

IRON PIPE—The feeling is strong at the recent rise in prices. The demand is good, buyers being anxious to lay in supplies before another rise takes place, which is anticipated. We quote as follows: Black pipe, ½ and ¾-inch, \$2.98; ½-inch, \$2.75; ¾-inch, \$3.30; 1-inch, \$4.50; 1¼-inch, \$6; 1½-inch \$7.50, and 2-inch, \$9.50. Galvanized pipe, ½ and ¾-inch, \$5.64; ½-inch, \$6.64; ¾-inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—No change to note, with a fair trade doing. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—The demand continues good at previous quotations. We quote as follows: Coke, I. C., \$3.25; charcoal, I. C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—The movement has been larger, and prices are unchanged on the basis of \$6.25.

COIL CHAIN—Demand still good. We quote: No. 6, 9¾c.; No. 5, 8¼c.; No. 4, 7½c., and No. 3, 6½c. per lb.; ¼-inch, \$5.50; 5-16, \$4.25; ¾, \$3.85; 7-16, \$3.70; ½, \$3.55; 9-16, \$3.40; ⅝, \$3.25; ¾, \$3.15, and ⅞, \$3.00 per 100 lb.

SHEET ZINC—In good demand and firmly held at 8 to 8¼c.

ANTIMONY—A fair business doing at 10 to 11c.

SPELTER—Market firm at late advance in prices: V.M., \$7; S.S., \$6.75.

GLASS.

The tone of this market is very strong. An advance of 10c. has been established in Ontario, and there is some talk here of following suit in the near future, as the position at present, no doubt, warrants it. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

A good healthy trade is doing in all lines, and more especially so in mixed paints and white lead. The demand for the latter is so great that manufacturers state they will not be able to complete their contracts before May 16, owing to the scarcity of raw ma-

terial. The scarcity of linseed oil still continues on account of the late arrivals of vessels which have consignments on board.

WHITE LEAD—Best brands, Government standard, \$5.87½; No. 1, \$5.50; No. 2, \$5.12½; No. 3, \$4.75.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 7c.; No. 1, 5½c.; in oil, pure, 8c.; No. 1, 6½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 66c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COD OIL—37½ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

The Magnolia Metal Co. have removed their Montreal office to Room 524, Board of Trade.

ONTARIO MARKETS.

TORONTO, May 12, 1899.

HARDWARE.

NO particular new features have developed during the week. The volume of business continues large, and, although there has been no further change in prices worthy of note, values are still firm. About the only irritating feature in business is the scarcity of many seasonable lines, as noted last week. Barbed wire is meeting with a fair request, and smooth steel wire and fine steel wire are in moderate demand for the season. Business in wire and cut nails is just fair. The screw trade continues decidedly active, and the same may be said in regard to bolts. Rivets and burrs

OAKEY'S 'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO. - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND BRASS

Pumps

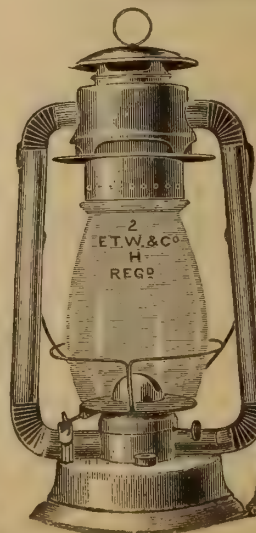
Force, Lift and Cistern Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited
Manufacturers, Galt, Canada.

E. T. WRIGHT & CO.

Hamilton, Canada



"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.

Send for new Catalogue.

are also meeting with a good demand. All lines of seasonable goods are fairly brisk.

BARBED WIRE—Manufacturers in Canada are still experiencing difficulty in getting supplies of raw material from the United States, and there is not much business being done in consequence. Prices are unchanged at \$3 per 100 lb. f.o.b. Toronto, with 2 per cent. off 10 days.

SMOOTH STEEL WIRE—There is just a fair trade being done in this line at the unchanged price of \$2.50 f.o.b. factory. See prices current for list of extras.

FINE STEEL WIRE—Not a great deal of attention is being paid to this line yet. The discount is unchanged at 25 per cent. f.o.b. factory point. The list of extras is quoted in prices current.

GALVANIZED WIRE—Business is quiet, it being difficult to get supplies. We quote: 9 gauge, \$2.65; 12 gauge, \$2.80; 13 gauge, \$2.90.

WIRE NAILS—There are quite a few nails going out, but still the volume of business is not large, being more of a sorting-up nature. The base price is unchanged at \$2.55 Toronto.

CUT NAILS—Much the same remarks apply to these as to wire nails, the volume of business being just fair. Base price is \$2.05 f.o.b. Toronto, Hamilton and London.

HORSE NAILS—Business continues quiet and unchanged. We quote: Standard, oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—Business in this line is still seasonably quiet and prices are as before. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—Trade is decidedly active in this line, the manufacturers and jobbers still being busily employed. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

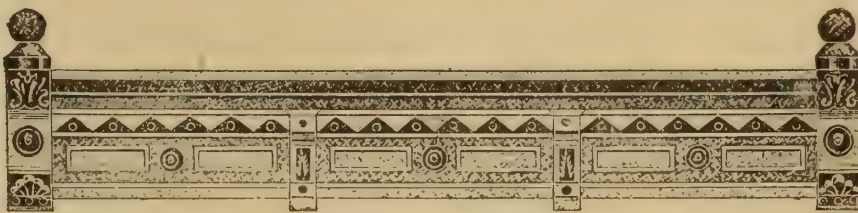
BOLTS—There is a good business being done in all kinds of bolts, particularly in stove bolts. We quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt

**THEY'RE EASILY APPLIED
ECONOMICAL AND FIREPROOF.**

Our Metallic Cornices

SHEET METAL FRONTS

etc., are reliable goods in popular demand for all kinds of buildings.



Cornice, No. 1187.

We make any shape, size or pattern desired by the trade. These lines are of equal value in new buildings or for improving old ones. Read full information in our catalogue.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—A good trade is being done and prices are firm and unchanged. We quote as follows: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The market for manila hemp shows increased firmness, but our quotations are as before. We quote as follows: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. New Zealand rope has been advanced to 9½c. per lb. Other quotations are: Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A nice business is still being done in these. We quote as follows: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—A fairly good business is to be noted. We quote: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. To-

ronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—The demand is fairly good and prices unchanged. We quote: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

GREEN WIRE CLOTH—It is still somewhat difficult to get delivery from the manufacturers, while the demand is good. Prices are unchanged at \$1.20 per 100 square feet.

POULTRY NETTING—There is a fair quantity going out at 50 and 5 per cent. discount.

EAVETROUGH—Business is good, and we quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—Business is keeping up fairly well in spades and shovels, a good many still going forward. Discount, 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—Jobbers complain that they are still experiencing a great deal of difficulty in getting supplies in certain lines, which is keeping trade back somewhat. Discount on harvest tools is unchanged at 60, 10 and 5 per cent.

GALVANIZED BUCKETS—Business is fair, and prices are unchanged. We quote: Straight pattern, No. 12, \$2; No. 14, \$2.25; No. 16, \$2.55. Flaring pattern, No. 11, \$2.25; No. 12, \$2.50; No. 13, \$2.85; No. 14, \$3.30.

LEATHER BELTING—Trade keeps good and prices firm. We quote: Extra, 50 per cent.; Standard, 50 and 5 to 50 and 10 per cent.

CEMENT—Business is brisk. The large

orders reported are being supplied principally with native Portland, as there is abundance of material, but little of the imported. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$2.90 to \$3.10; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The tin market is easier, but in other kinds of metals prices are firm. One pig iron firm in the United States, which does a large export trade with Canada, advises an advance of \$1 per ton in foundry iron. Redipped charcoal tinplates and coke and terne plates are quoted higher by Toronto jobbers.

PIG IRON—Rogers, Brown & Co. advise an advance of \$1 per ton in the price of their foundry iron, making the price of No. 2 foundry, \$17.40, Toronto, in bond. There was a transaction this week in Toronto, in which 4,000 tons of No. 2 foundry of United States make was concerned, but the price was private. Hamilton pig iron f.o.b. cars at the furnace is quoted as follows: No. 1, \$17; No. 2, \$16.50; No. 3, \$16.

BAR IRON—Trade is fairly brisk and prices firm. The base figure from stock is \$1.70 to \$1.75 per 100 lb.

BLACK SHEETS—The demand keeps good. The price of 28 gauge is still \$2.85 per 100 lb.

GALVANIZED IRON—Import orders are still arriving, and there is a good demand with prices firm at former quotations. We quote the different brands of 28 gauge as follows: "Queen's Head," \$4.75; American, \$4.50, and "Gordon Crown," \$4.50.

COPPER—A fairly good business is being done in ingot copper, and in sheet steel it is moderate. Ingot copper is quoted at 19 to 19½c., and sheet at 23 to 23½c. per lb.

BRASS—Trade is good and prices firm, figures now being net list.

PIG TIN—Since the beginning of the week, the price of tin in London, England, has declined £3 per ton, and in New York the market is somewhat easier. Locally, prices are unchanged at 28½c. for Straits and 29c. for Lamb and Flag.

TINPLATES—The price of redipped charcoal plates has advanced 25c. per 100 lb. We now quote, I C, \$5.25; I X, \$6.50; I X X, \$7.75. Coke plates are 35c. higher, I C, usual sizes, being quoted at \$3.50; I C, special sizes, \$3.75; 20 x 28, \$7.10. Terne plates are 50c. dearer, being quoted at from \$6.75 to \$8.25. These advances are in sympathy with higher quotations in England.

TIN SHEETS—These are still in good

demand, and prices are firm. We quote: 24-gauge, 6 to 6¾c.; 26-gauge, 6¾ to 7c.; 28 gauge, 7½ to 7¾c. per lb.

CANADA PLATES—Trade in this line continues quiet. We quote: All dull, \$2.70 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—Trade continues fairly good. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—The outside markets are somewhat irregular, but locally there is no change and business is only moderate. We still quote at 4¼ to 4½c.

IRON PIPE—Black iron pipe is in brisk demand at firm prices. Galvanized pipe has been advanced quite materially during the past week. We quote as follows: ½ to ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ½ inch, \$6; ¾ inch, \$7.50; 1 inch, \$10.50; 1¼ inch, \$15; 1½ inch, \$18.50; 2 inch, \$25.

RANGE BOILERS—The anticipated advance has taken place, our quotations this week being \$1 higher than they were. Discount on copper boilers is lower. We quote: Galvanized, 30 gals., \$7; 35 gal., \$8; 40 gal., \$9. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Business is much as before, with prices unchanged. We quote: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ⅝ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—The demand is good and prices firm and unchanged at 8¼c. for cask lots and 8½c. per lb. for smaller lots.

SPELTER—Trade in this line is quiet, with prices firm. We quote 7½ to 7¾c. per lb.

SOLDER—A good trade is still being done in this line. We quote: Half and half, 17c.; refined, 16½c.; wiping, 16c.

ANTIMONY—The market is steady as to price, and quotations are unchanged at 11 to 11½c. per lb. for Cookson's. Business is quiet.

PAINTS AND OILS.

The spring rush is on, and all staples and sundries are moving actively. A general steadiness is noted. Turpentine is the only article that is not firm. The feeling regarding this material is somewhat easier, though no change of prices is noted. Linseed oil is steady, notwithstanding the arrival in Montreal of stocks from England, which were purchased at lower prices than those now ruling. White lead is steady, though no change in price is noted. Paris green is firm, though quotations are unaltered. Business is beginning to improve. The scarcity of whiting has been relieved by recent arrivals. It is still steady in price. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½; No. 4, \$4.50; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—60c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

The anticipated advance has been made. First break star is 20c. dearer in 50-foot boxes and 25c. in 100-foot boxes. Double diamond is 50c. dearer for sizes under 25 united inches. We quote as follows: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

There is no change, though a decidedly firm feeling is manifested in all lines. We quote: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast

SEND for specimen copy of Phillips' Monthly Machinery Register, containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, 6s. per annum, price per copy, 8d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon., England. Telegraphic address: "Machinery, Newport, Mon."

scrap, 30c.; No. 1 wrought scrap, 45c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES The market is weak, though prices are unchanged. We quote cowhides: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c.; Steer hides are worth ½c. more. Cured hides are worth 8¼c.

SKINS—Offerings are more liberal, and the demand is active; consequently, the feeling is easy. We quote: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins are coming in slowly at 90c. to \$1, and lambskins at 20c.

WOOL—An easy feeling is noted. Prices are unchanged, fleece selling at 13 to 14c., and unwashed at 8 to 8½c.

COAL.

The advance noted is well maintained, but is offered for May shipment only. We quote anthracite at Buffalo and bridges as follows: Egg and stove, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

MARKET NOTES.

Range boilers are \$1 higher.

Tinplates have been advanced.

Window glass is from 25 to 50c. dearer.

A GOOD HARDWARE STORE.

The new store which A. D. Ellis, hardware dealer, Simcoe, Ont., has erected is built after the most modern style. It consists of two storeys and a granolithic floored basement that extends the full length of the building. The floor is fitted with short counters and tables for display purposes. These, with the high ceiling and fine plate glass front, give a fine effect of size. A massive stairway leads to the first floor, where light goods are stored, and where a bicycle repair department is situated. In the basement, paints, oils, glass, wire, etc., are stored.

MANILA FIRM, SISAL DULL.

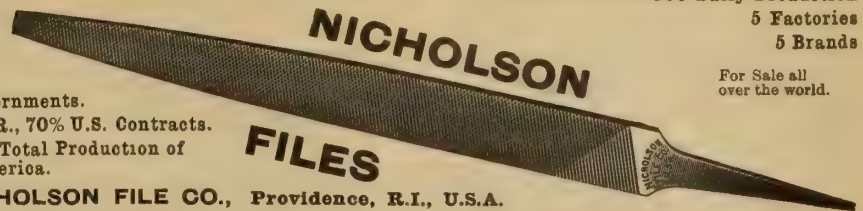
The market for manila hemp ruled very quiet again yesterday, with hardly any inquiry from manufacturers and those that were taking interest placed their ideas too low to lead to business. The position of supplies continues strong, especially as regards the better grades, and holders show no inclination to make concessions. London cables reported a firmer feeling there for the

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production
5 Factories
5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

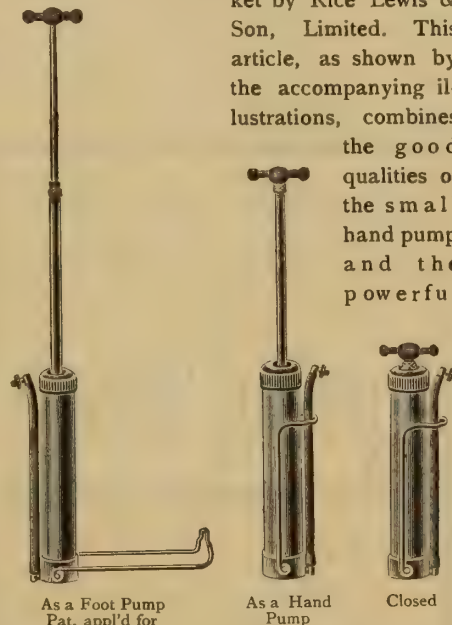
Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETTÉ**," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

distant positions, but named no new prices. Sisal hemp continued dull, with moderate offerings on spot, and holders were not anxious to name prices, but solicited bids. Nominal quotations were unchanged, but it was believed these could be shaded.—New York Journal of Commerce, May 11.

A GOOD BICYCLE PUMP.

Everyone who has owned a bicycle will recognize at a glance the practical utility of a bicycle pump now being put on the market by Rice Lewis & Son, Limited. This article, as shown by the accompanying illustrations, combines the good qualities of the small hand pump and the powerful



foot pump. It is, when closed, small enough to go into an ordinary tool bag, yet has the strength, and is so constructed that it is literally a foot pump. The wheeling public will not fail to recognize the utility of this article.

TO STUDY NAVAL ARCHITECTURE.

Mr. Charles L. Lawrie, of W. & J. G. Greey, mill supplies, Toronto, has severed his connection with that firm for the purpose of taking up the study of naval architecture in the Glasgow University. On Tuesday his friends tendered him a complimentary

banquet at Webb's, and presented him with a gold watch chain. Mr. Lawrie sails to-day (Saturday) from New York.

THE IRONMONGER AND HIS DEBTS.

BOTH the British manufacturer and the retail ironmonger have been charged with dilatoriness and want of enterprise, and now we are told that the ironmonger is slow in paying his debts, and grumbles when he does. At any rate, we have incurred the displeasure of one American gentleman who has been amongst us booking orders and then collecting accounts. In the course of a lecture on "Business Methods Abroad," given before an American trade association, Mr. R. R. Dennis, whose name will be remembered by many of our readers as late European manager for The Whitman & Barnes Manufacturing Co., had something to say about his experiences amongst us and our continental neighbors.

According to Mr. Dennis, "the small dealer in England buys goods of you on 60 or 90 days net, or 2½ per cent. for cash on the 15th of the month following the date of the invoice, lets the account run four or six months, and when you finally impress him with the fact that your good nature is about exhausted, he sends on a cheque for the amount, less the 2½ per cent. If you take the cheque in you may whistle for the discount, and if you send the cheque back, calling his attention to the fact that the account is long overdue, and that he is, therefore, no longer entitled to any discount, he will, without doubt, send the discount on in postal orders, and at the same time tell you that he has no intention of ever buying anything further from a concern that resorts to such sharp practices." In America, apparently, the manufacturers execute orders promptly, and expect payment to time. It is, perhaps, only natural that in a country where we do not do business at such a "slick" rate, we should be a little slower in paying our bills.—Ironmongery.

MANITOBA MARKETS.

WINNIPEG, May 8, 1899.

BUSINESS continues good with a steady demand in all staple lines. The only change in prices for the week is an advance of 50c. per hundred on rope.

The plan of having auction sales of bicycles is being tried here and one is announced for Wednesday next.

Mr. William White, formerly of Clinton, Ont., and for many years connected with J. H. Ashdown's retail house, has accepted the charge of the hardware department of the Hudson's Bay Co. at Macleod and leaves for his new post to-day. His fellow employees made him a handsome presentation on Saturday night. Quotations are as follows:

Barbed wire, 100 lb.	\$3 50
Plain twist	3 50
Staples	3 75
Oiled annealed wire	10 2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1	4 25
No. 2 and larger	4 00
Snow shoes, No. 0 to No. 1	4 55
No. 2 and larger	4 25
Steel, No. 0 to No. 1	4 55
No. 2 and larger	4 30
Extra light	5 50
Bar and band iron, \$2.30 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb.	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 00
14 to 26 gauge	3 25
28 gauge	3 60
Galvanized American, 16 gauge	4 00
18 to 22 gauge	4 25
24 gauge	4 50
26 gauge	4 75
28 gauge	5 00
Genuine Russian, lb.	12
Imitation	8
Tinned, 24 gauge, 100 lb.	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	8 50
IX	10 50
IXX	13 00
Ingot tin	29
Canada plate, 18 x 21 and 18 x 24	3 10
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black 1/4 inch	3 00
" 3/8 inch	3 25
" 1/2 inch	4 00
" 3/4 inch	4 50
" 1 inch	6 25
" 1 1/4 inch	8 50
" 1 1/2 inch	10 25
" 2 inch	14 00
" Over 2 inch	70 p.c.
Rope, sisal, 7-16 and larger	11 00
" 3/8	11 50
" 1/2 and 5-16	12 00
Manila, 7-16 and larger	12 00
" 3/8	12 50
" 1/2 and 5-16	13 00
Solder	18
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00

Screws, flat head, iron	80, 10 and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass	70 and 10 p.c.
Round " "	60 and 5 p.c.
Bolts, carriage	55 p.c.
Machine	60 p.c.
Tire	55 p.c.
Sleigh shoe	65 p.c.
Rivets, iron	50 p.c.
Copper, No. 8, lb.	32 1/2 c.
Spades and shovels	
Harvest tools	60 to 60
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1	1 50
No. 2	1 25
Octagon extra	1 65
No. 1	1 25
Linseed oil, raw, per gal.	57
boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge	15 00
chilled, 12 gauge	16 50
soft, 10 gauge	20 00
chilled, 10 gauge	21 00
American, M	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled	7 00
Powder, F.F., keg	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed	70 and 30 p.c.
Granite ware, according to quality	50 to 60 p.c.

CHANGE IN A CROCKERY FIRM.

Mr. John Gowans, senior partner in the firm of Gowans, Kent & Co., wholesale crockery dealers, Toronto, has retired from the firm. About thirty years ago, Mr. Gowans, in partnership with Mr. Henry Kent, commenced this business in Toronto.

This partnership was continued for about fifteen years, when Mr. Kent's sons, James G. and John G., were admitted. A short time later Mr. Kent, sr., died, since which time the firm has been unchanged until the present retirement of Mr. Gowans.

Wm. Peterkin, who has been the firm's foreign buyer for some time, and D. W. McClain, manager of their retail store, called the "Pantechneethca," who has made a special study of high art china goods, have been admitted into the firm, the style of which will remain unchanged.

The retail store will be closed, and Mr. McClain's knowledge of fine china will be exclusively devoted to the wholesale department.

A CLEANSING COMPOUND.

J. H. Farr & Co., Toronto, are manufacturing a cleansing compound, "Sanatine Cleanser," which should be of value to housekeepers, painters, and others. It can be used for removing grease or any stains from woodwork, which it will do without injuring the varnish or paint. It can also be used for cleaning oilcloths, carpets and cloths, as it will hurt in no way any fabric, coarse or fine. In the kitchen it is of use for cleaning tables, pots, glassware or silverware. As it softens hard water, it does not chap the hands, its effect being rather to keep the skin soft and in good condition.

Have your foundation
well and truly laid
FOR
Spring Trade

Scrubs
Shoe
Store
Dandy
Horse
Stable Brooms

Bannister and Hair Brooms
Window Brushes and Rubbers
Dusters and other Household Brushes
Brooms, Whisks and Woodenware

Oval and Flat Paints
Flat Wall
Sash Tools
Varnish, Oval or Flat
Kalsomine
Whitewash
Paperlayers'
Paint Dusters

And a well selected stock of

Boeckhs'
Brushes, Brooms,
and
Woodenware.

Our Illustrated Catalogue for the asking.

BOECKH BROS. & COMPANY

Branches in
Montreal, Winnipeg
and Vancouver.

TORONTO, ONT.

Net Price List of Cycle Sundries

To Hardware Dealers Only.

LAMPS

SEARCHLIGHT, \$3.25.

M. & W. GAS, \$2.50.

M. & W. OIL, \$2.00.

QUEEN, \$1.25 each.

BELLS

		No. 112	122	311	321	222	TRINITY CHIMES			
		\$2.00.	\$2.30.	\$2.00.	\$2.30.	\$2.70.	\$6.65	per doz.		
No.	S 4	D 9½	D 7½	E 10½	E 3½	E 9½	E 7½	1047	C 3	12017
	\$1.20.	\$2.30.	\$2.85.	\$3.15.	\$7.50.	\$3.70.	\$4.40.	\$7.20.	\$8.50.	\$6.25.
										T 9
										\$8.50 doz.

CYCLOMETERS

VEEDER (PLAIN)
\$8.75.VEEDER (TRIP)
\$19.15.I
\$4.80.2
\$5.25SPALDING
\$4.50 doz.

Tachometers or Speed Indicators, \$10.00 doz.

ECLIPSE RUBBER CEMENT

Tubes.—½	¾	1	2	4-oz.	Bottles.—2-oz.	Cans.—4	8	16-oz.
20c.	25c.	28c.	45c.	60c.	55c.	84c.	\$1.25.	\$2.20 doz.

ECLIPSE WOOD RIM CEMENT (LIQUID).

Tubes.—¾	1	2-oz.	Bottles.—2-oz.	Cans.—4	8	16-oz.
25c.	28c.	45c.	55c.	84c.	\$1.25.	\$2.00 doz.

Hard Rim Cement.—1 pound blocks, 20c. per pound.

ECLIPSE PLUGGING CEMENT.

Tubes.—½-oz.,	¾-oz.,	1-oz.,
35c.	43c.	55c.

ECLIPSE OIL.

LUBRICATING.— Bottles.—2-oz., 40c.
ILLUMINATING.—Bottles.—6-oz., 85c.Cans.—16-oz., \$1.45 per doz.
Cans.—16-oz., \$1.85 per doz.

Graphite in Tin Boxes, 38 cents per dozen.

Cream Graphite in Tubes, 56 cents per dozen.

Tire Tape—1 and 2 oz. Rolls, 45 cents per lb.

Repair Outfits—No. 3, at 10 cents each. No. 5, at 27 cents each.

Pumps—Hand Pumps, 12c. each M. & W. Pump and Carbide Holder, 17c. each. Double Action, 40c. each.

Foot Pump—No. 214, at 33 cents. No. 8, at 50 cents. No. 12, at 50 cents each.

Wrenches—Mossberg, 20 cents. No. 3, at 16 cents. No. 14, at 15 cents each.

Oilers—No. 969, at 50 cents. Canteen, at 65 cents per doz. Safety, \$1.65 per doz.

Toe Clips—No. 1, at 75 cents. No. 3½, at \$1.80. No. 4, at \$2.00 per doz. pairs.

Stirrup Leather—\$3.00 per doz. pairs.

Trousers Guards—\$2.10 per gross pairs.

Lamp Brackets—Head, at 90c. per doz. Axle, 30c. per doz.

Grips—Fibre, 9 cents per pair. Inlaid, 16 cents per pair. Leather, 17 cents per pair.

Whistles—Echo, at \$1.50 per doz. Universal, \$1.50 per doz.

Stands and Holders—Simplicity, 30 cents each. Brooklyn, 80 cents each. Myers', 55 cents each.

Climax, \$1.50 per doz. Ryder's, \$1.65 per doz.

"3 in 1" Compound—\$1.75 per doz. Bottles.

Pacemaker—\$1.60 per doz. Tubes.

Combination Chain Brush and Lubricator—\$2.60 per doz.

Rust Remover—\$1.60 per doz. Tubes.

Luggage Carriers—Bay State, \$4.50 per doz.

Short Stop Puncture Fluid—8 oz. Tubes, 40 cents each.

Handle Bars—Hickory Wood, with ¾ in. post, \$1.00 each.

Cycle Polish—4 oz. Bottles, \$1.00 per doz.

Pedal and Toe Clips, Leather Stirrup—\$1.85 per pair.

Watches and Stands—\$1.35 each.

If our travellers do not call on you, send direct to us.

Caverhill, Learmont & Co., Montreal.



Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

Manufactured only by ...

THE STANDARD CHEMICAL CO., Limited

Factories { Fenelon Falls.
 Deseronto.

Gooderham Building, **TORONTO**

Ride Good Tires



**Samson
 New York
 C. R. Co.**

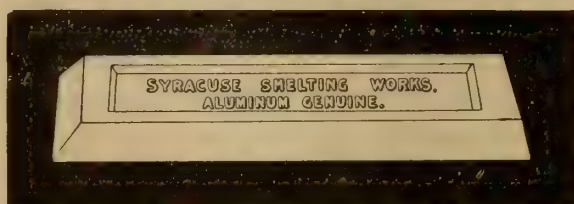
} **Tires are Good Tires.**

Write for Catalogue and Prices

NEW YORK TIRE CO. - - Toronto, Ont.

USE SYRACUSE BABBITT METAL.

**IT IS THE
 BEST MADE.**



FOR ...

Paper and Pulp Mills,
 Saw and Wood Working
 Machinery,
 Cotton and Silk Mills,
 Dynamos, Marine Engines,
 and all kinds
 Machinery Bearings.

Pig Tin, Lead, Ingot Copper, Phosphor Tin, Phosphor Bronze Ingots, Brass, Nickel, Bismuth, Aluminum, Zinc
 Spelter, Antimony, etc., furnished promptly.

—TINSMITHS' AND PLUMBERS' SOLDER A SPECIALTY.—

SYRACUSE SMELTING WORKS

B. Telephone 8171.

Factories—332 William Street, **MONTREAL, QUE.**, and **SYRACUSE, N.Y.**

SHAFTING HANGERS PULLEYS

We manufacture and carry in stock ready
 for prompt shipment, a full line of Shafting,
 Hangers and Pulleys

**Especially suited for
 Creamery and Dairy Work.**

Up-to-date goods. Correct prices.
 Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office: 74 York St., **TORONTO, ONT**

IN . . .

Buying

Silverware from your jobber insist on it being stamped with our well-known name, as stamped in this way it is fully guaranteed, as to quality.

We are strictly a **Canadian Company**, employing **Canadian capital** and labor, not a member of the

Silverware Trust

or of any **Silverware Association** or combine.

The Toronto Silver Plate Co.
Limited

Factories and Salesrooms:

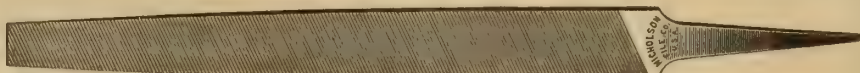
King St. West
...Toronto
Canada

E. G. GOODERHAM,
Managing Director.

Best Crucible Steel.

MCCLELLAN FILES

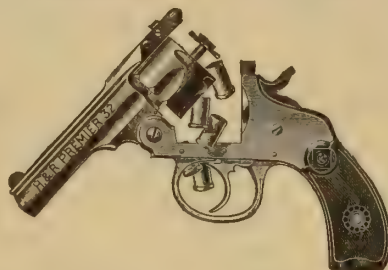
Fully Warranted.



Sold by **CANADA HARDWARE CO., LIMITED, MONTREAL**, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of — **High Grade REVOLVERS**

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO., Gooderham Building, **Toronto**



Geo. D. Wood & Co.

WINNIPEG, MAN.

Importers of and Dealers in

**SHELF AND HEAVY
HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now complete in seasonable lines. Prompt shipment.

Letter orders receive special attention.



THE LATEST

THE BEST

Banner Cold Blast

Tubular Lanterns

With Patent Safety Extinguishing Burner. For sale by all prominent Hardware and Lamp Goods Merchants.

The "Victor"

Bicycle Lamp

Burns Acetylene Gas.
Handsome! Practical!
Low Price!

Throws a brilliant light 200 feet.
The demand for the "Victor" Lamp is increasing daily.

Address all enquiries to

WALTER GROSE

Sole Selling Agent.

Large White Flame
Windproof.



MONTREAL

Concerning Horse-Nails :

Prof. William Russell, who is recognized as a leading authority on the subject of Horseshoeing---having a practical experience of over 50 years---has compiled a book bearing the title, "Scientific Horseshoeing," which is one of the most complete published on the subject. In reference to Horse-Nails he says :

"Never use inferior Nails, for they invariably break off or bend upon slight occasions and the shoe will work loose from the foot or be quickly lost. A good nail should have a good strong stiff neck and shoulder, flat thin shank, and sharp point, without hollowness or flaw. A low, short, thick hold for the nail is better both for the ease of the foot and the security of the shoe. Two of the most common evils in shoeing are using too many and too large nails, and then driving them too high up in the wall. The fewest and smallest nails that will insure the shoe remaining on for a reasonable length of time, is a rule that should never be departed from."

We submitted samples of our "C" brand Nails to Prof. Russell for his opinion of them. He wrote us as follows :

"The shape of the blade below the neck or head of nail is par excellence. The bevel on the point is elegant and complete; would advise no change."

In buying the "C" brand Horse-Nail, you are bound to satisfy your farrier trade as no other nail will do. It meets every requirement in quality, pattern and finish. There are none better, and the majority of the hardware trade and farriers using them think---as we do---that they are the best. Why not buy the best? Order them specially next time you want Horse-Nails, and insist upon being supplied by your dealer with them. The genuine have our trade mark (the single letter "C," or first letter in "Canada") and our name in full on each box.

Every box warranted perfect.

CANADA HORSE NAIL COMPANY.
MONTREAL

Hull, England.

ESTABLISHED 1803.

Montreal, Canada.

GRIFFIN AND SHIELD BRAND



This Mark is a Guarantee
of Quality.

Varnishes Paints Colors

SISSONS BROS. & CO. LIMITED

of Montreal

MANUFACTURERS

HALL'S PATENT

Washable Water Paint

This paint is a boon, particularly now that the house-cleaning season is on. Anyone can use it. Write for particulars. No smell. Dries in half-hour.

WE do not manufacture low grade goods. The best quality of paints are always the **cheapest**. Our aim is quality. We use only the best raw material. Years of experience have taught us how to make the best goods.

Write for Catalogue and Shade Cards giving full particulars of our

Mixed Paints	Varnishes
Floor Paints	Colors in Oil
	etc.

C. R. McDowell, Manager Canadian Department

Offices and Warehouse, 821 Craig Street
Factory, - - - Canal Bank

 **MONTREAL**

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

RICHARD CHARLES, general merchant, Caledonia, Ont., has assigned to Donald McGregor.

The sheriff is in possession of the business of Wm. Quirk, general merchant, Dryden, Ont.

Annie M. Brown, harness dealer, St. Catharines, Ont., has assigned to J. E. Baxter.

Narcisse Reid, general merchant, St. Philomene, Que., is preparing a statement of affairs.

Lefebvre & Paschereau have been appointed curators of Max Winter, general merchant, Grand Mere, Que.

Donald J. McCosh, hardware dealer, etc., Lucan, Ont., has assigned to Alfred Robinson, London, and a meeting of his creditors will be held on the 16th inst.

PARTNERSHIPS FORMED AND DISSOLVED.

C. S. Chapman & Son, general merchants, Amherst, N.S., have dissolved.

Morrison Bros., blacksmiths, Moore Creek, Ont., have dissolved, Norman Morrison continuing.

Edouard and Zotique Plante have registered as proprietors of Plante & Co., electricians, Montreal.

Halpenny & Co., hardware dealers, Minnedosa, Man., have dissolved, H. N. Halpenny continuing.

Come Leude and Gedeon Arcand have registered partnership under the style of Arcand & Frere, carriagemakers, Portneuf, Que.

J. T. Gagnon, general merchant, etc., Moose Creek, Ont., has admitted Thomas Gagnon, and the style is now J. & T. Gagnon.

Wm. F. and Thos. A. R. Routledge have registered copartnership under the style of Wm. Routledge & Co., general merchants, Dominion, N.S.

John Paterson Bickell, Leon Gelinas, and Michael Marquis have registered as proprietors of Bickell, Marquis & Gelinas, general agents, Montreal.

Copartnership has been registered between Daniel H. McGillivray and Edward McIntosh under the style of McGillivray & McIntosh, general merchants, Antigonish, N.S.

SALES MADE AND PENDING.

Wm. Leighton, blacksmith, Cross Hill, Ont., is advertising his business for sale.

Lederman & Co., general merchants, Baden, Ont., are advertising their business for sale.

E. A. Dool, general merchant, Easton's Corners, Ont., has sold his stock at 61½c. on the dollar.

James McPhee, electrician, Nelson, B.C.,

has been succeeded by the Kootenay Electric Supply and Construction Co.

CHANGES.

Albert Jickling, harnessmaker, Winkler, Man., has sold out to John Reuter.

Thorne Bros., general merchants, Sidney, Man., have sold out to D. McLennan.

Mrs. J. G. Monkman, general merchant, Cookstown, Ont., has been succeeded by R.

Gillard & Nobles, general merchants, etc., Grafton, Ont., have been succeeded by J. W.

Melville Millar, hardware dealer, Orillia, Ont., has been succeeded by McNabb Bros.

McDougall & Co., hardware dealers, Neepawa, Man., have been succeeded by Russell Fox.

W. M. Robson, general merchant and hotelkeeper, Plumper Pass, B.C., is giving up his store business.

MacNachtan & Co., hardware dealers, Cobourg, Ont., have been succeeded by W. L. Allen & Co.

Walter Greb, blacksmith, Portage la Prairie, Man., has sold out to J. Ballard and A. R. Hoover.

The style of J. L. Walworth, dealer in tinware, etc., Vancouver, has been changed to J. L. Walworth & Co.

West & Freeman, manufacturers of wheels, hubs, spokes, etc., Yarker, Ont., have sold out to Freeman Bros. & Walker.

FIRES.

The estate of George A. Marsten, hardware dealer, Hull, Que., has been damaged by fire and water; partially insured.

DEATHS.

George Vandyke, carriagemaker, Grimsby, Ont., is dead.

John McMillan, of John McMillan & Co., general merchants, Antigonish, N.S., is dead.

PROFITS AND DISCOUNTS.

The following, says an exchange, should be posted on every merchant's desk. It means, discount your bills:

1. One-half per cent. on a 30-day bill, paid in ten days, is equal to interest at the rate of 8 per cent. per annum.

2. One and one-half per cent. on a 60-day bill, paid in ten days, is equal to interest at the rate of 11 per cent. per annum.

3. Four per cent. off on a four months' bill, paid in 30 days with a 3 per cent. discount, is interest at the rate of 12 per cent. per annum.

4. Five per cent. discount off on a four months' bill is interest at the rate of 15 per cent. per annum; or, if paid in 30 days, less 4 per cent., it is 16 per cent. per annum.

Bills paid are safer than money in any bank, however strong. Cash discounts are the dealer's first profit, and one he is sure of.

ELECTRIC POWER FOR PORTABLE MACHINE TOOLS.

TO most minds, portability in the case of a machine tool carries with it the suggestion of relatively small size, and a 48-inch slotting machine, for example, would not ordinarily be thought of as a tool of the portable type, says Cassier's Magazine. The advent of electricity as a motive power, however, has brought some of its striking results into this field as well as into others of perhaps better-known character, and has given to some of the heavier machine-shop equipments a flexibility of application which has widely extended their sphere of usefulness and has correspondingly simplified operations of hitherto awkward nature. The possibility, through electric driving, of bringing the tool to the work instead of the work to the tool has, indeed, led to a degree of economy in the handling of material which, in one of the large engineering workshops, is the immediately striking feature of the place and at once commands attention. An overhead electric traveling crane picks up a heavy slotting, or shaping, machine, or drill press, or other tool of required kind, carries it the length of the shop, if need be, to the work in hand, and as promptly takes it away after its mission has been accomplished, to operate upon some other piece of work, or to make room for some other tool. That portion of the shop floor commanded by the crane is one huge work table, slotted and grooved in all directions for temporarily bolting down the tools, and the equipment in its entirety and the methods of handling it afford a splendid object lesson of evolution in shop practice. No time is lost in carrying the heavy piece of work from tool to tool to be adjusted and fastened for each separate one; it is left in its originally allotted place, to be operated upon by each tool in turn, or, preferably, by several tools at once, as is often possible, with a degree of ease, rapidity and precision which invariably is impressive.

A BOOK FOR HARDWAREMEN.

A book which should be of interest to every hardwareman has just been issued by the David Williams Co., 232-238 William street, New York. It is entitled "Hardware Store Business Methods," and treats, among others, on such subjects as buying, accounting, methods in stock-taking, care of stock, treatment of clerks, collecting accounts, cost marks, starting in business and profit figuring. It is neatly bound in stiff linen board, and is well printed on good paper. Several of the subjects, especially in regard to bookkeeping, are illustrated. The book contains 200 pages.

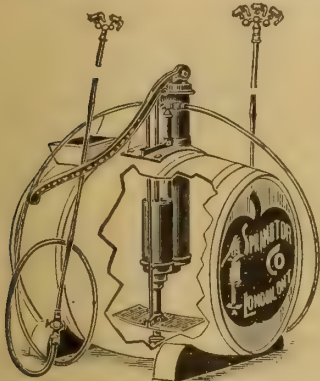
The
**DETECTIVE AND CONFIDENTIAL
AGENCY.**

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies,
Fires, Embezzlements; Lost Friends Located; Legal and
Private Reports; Movements of Employees or Friends.

All Spraying, Disinfecting, and Whitewashing
can be done with **THE SPRAMOTOR.**



It is the result
of most careful
and exhaustive
experiment.
Each feature
was thoroughly
tested before
being placed on
the market.

Toronto, Nov.
9, 1898 Spramotor
Company,
London, Ont.
Gentlemen,—
The machines
for spraying and
whitewashing
you have supplied
to Dentonia Park Farm
have done their
work well, and
are quite satisfactory.
I could
not have believed
there was so
much value in
spraying fruit trees. We had a good crop of apples, whereas
our neighbors, who used no spraying apparatus, had practically
none. Yours truly,
W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus,
held at Grimsby, on April 2nd and 3rd, 1896, under the
auspices of the Board of Control of the Fruit Experimental
Stations of Ontario, in which there were eleven contestants,
the SPRAMOTOR, made by the Spramotor Co., of London,
Ont., was awarded **FIRST PLACE.**

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we
will send you a 12-page copyrighted catalogue and treatise
on the diseases affecting fruit trees, vegetables, etc., and
their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

**D.F. Jones Manufacturing Co.
Limited, of Gananoque, Ont.**

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back
Shovels and Spades **THAT ARE SOLID**, without
weld, and graduated from socket to point, and
from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

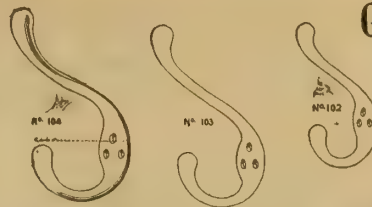
CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited



Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220½ Board of Trade, MONTREAL



Nobles & Hoare.

CORNWALL ROAD STAMFORD STREET.

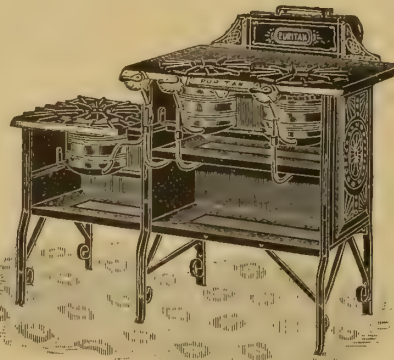
LONDON, ENG.

Manufacturers of

HIGH-CLASS VARNISHES ONLY

Which can be obtained direct from the works
or from the principal Color Dealers in Canada.

Puritan Wickless Blue Flame.



This is the only Wickless

Blue Flame Oil Stove that

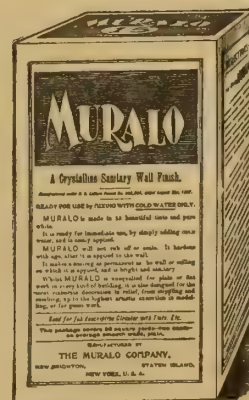
has given satisfaction. . . .

The oil tank is made of Brass, also Brass Tubes.
Needle-pointed Valves with shut off and Brass Gener-
ators. All these parts will wear for many years. It
produces more heat than gas or gasoline. One gallon
of Canadian Oil will last for 22 hours. It is perfectly
odorless.

Send for catalogue and secure the agency for your
town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East - - - TORONTO.



MURALO

THE WALL TINT.

MURALO excels any other wall finish for durability.
Will not rub off, scale or peel away, but hardens with
age, becoming a part of the surface to which it is
applied.

MURALO Mixes with Cold Water and is ready
for the wall. It is made that way and for that purpose.
No other similar preparation can equal it.

MURALO is the only sanitary cementitious wall tint
made. Muralo is manufactured under U. S. Letters Patent, No. 368594, August
23rd, 1887, and is registered in Canada. Muralo process of manufacture is
known only to the Muralo Co. It is finer, purer, easier worked, and more last-
ing than any other wall tint.

THE MURALO CO. HELPS THE DEALER TO SELL THE GOODS.

Write for Particulars.

A. RAMSAY & SON, MONTREAL, Agents for Canada.

HEATING AND PLUMBING

GREENHOUSE HEATING.

THE following is an extract from a paper read before the Missouri State Horticultural Society by L. R. Taft, of the Agricultural College of Michigan :

HEATING BY HOT WATER.

For heating small ranges of greenhouses some of the cast iron hot-water boilers, although they are comparatively high priced, will prove satisfactory and in the end economical, as they will be more durable than wrought iron boilers, especially if the latter are made in the form of box coils from ordinary gas pipe. The joints of the latter being screwed together will expose more or less of the threads, and, as a result, may not last more than two or three years, although with heavy pipe the life of the pipe boiler may be seven or eight years, if care is taken not to have any of the threads exposed. For larger ranges, where hot water is used, tubular boilers may be employed and will give good satisfaction, especially if the tubes are placed so as to fill the shell of the boiler. Although these boilers are made of wrought iron, the tubes are thicker than those commonly used for coil boilers, and the tubes, being riveted rather than screwed into the boiler heads, will be quite durable.

PIPING.

For piping houses for hot-water circulation, there has been a marked change in the kind of pipe used in the last 20 years. Instead of the old-fashioned 4-inch cast iron pipes, wrought iron pipes from $1\frac{1}{4}$ to 2 in. diameter are used for the coils. In some cases the coils include both the flow and return pipes, but more commonly the water is carried to the further end of the house in pipes of a somewhat larger size, which are there connected with the returns. Although larger pipes are occasionally used, the usual size for the flow pipe is either 2 or $2\frac{1}{2}$ inches, the former being used for coils containing about 200 square feet of radiation, while the latter will supply 350 feet. When the heater can be sunk so as to be below the level of the greenhouse floor, a fairly good circulation can be secured with all the pipes under the benches, but better results can be obtained when the flow pipes are carried as high as possible, and the use of overhead flows becomes almost necessary where it is not possible to lower the heater. One or two of the flow pipes can be carried upon each of the rows of purlin and ridge posts, and others, if necessary, upon the walls. The radiation supplied by the returns will be rather more effective when arranged

in horizontal coils than when the pipes are placed one above the other, but from the fact that when the coils, in whole or in part, are carried upon the posts of the side walls they are out of the way, the vertical coil is often used. While good results will be secured whether the flow pipe is carried with an upward or a downward slope, the results, if anything, seem to favor a downhill system. The slope should be merely enough to free the pipes of air, for which an outlet must be provided at the highest point.

HEATING BY STEAM.

The arrangement of the pipes where steam is employed is quite similar to that in the hot-water system, the particular difference being that the size is considerably smaller for both the flows and returns. The return pipes need not be larger than $1\frac{1}{4}$ inches, and, for small houses, very good results can be secured with 1-inch pipe. As a rule, a 2-inch supply pipe will answer for an ordinary house 20x100 feet, except where high temperatures are desired. In the steam system there should be an automatic air valve at the lower end of each of the coils and for controlling the heat valves are necessary upon both the supply and drip pipes, while in the hot-water system only one valve is necessary, although two will be desirable in case there should be occasion at any time to cut off the coil in order to make repairs upon it. In the steam coils it is also well to have several of the pipes provided with valves in order that one or more of them may be cut off to control the heat. In estimating the amount of radiating surface that will be required, it is customary to consider that 1 square foot of surface will be sufficient for 3 of exposed glass, if the house is to be carried at 60 degrees, with hot water, and that it will answer for 4 or 5 if 50 or 40 degrees, respectively, is to be maintained. With steam heat, 1 foot of radiation will be ample for $5\frac{1}{2}$ square feet of glass in houses to be heated to 60 degrees, for $7\frac{1}{2}$ if 50 degrees is to be maintained, while only 1 foot of radiating surface to 9 square feet of glass will be required in houses that are to be heated to 40 degrees. The above figures will be found substantially correct in sections where the usual winter temperature does not drop below zero, and where the houses are well built and with a comparatively small amount of wall surface. In sections where the temperature drops much below zero, or where the character of the house makes it difficult to heat, these figures will need to be slightly modified.

THE NATIONAL CONVENTION.

ON Saturday last, the executive committee of the National Association of Master Plumbers and Steamfitters of Canada met in Toronto, the president, Wm. Smith, coming to the city for the occasion. The only business of importance transacted was the decision making June 30 and July 1 the dates for the annual convention, which is to be held in Ottawa this year.

The reception committee in Ottawa has not yet reported to the executive, but, it is understood, a big time is in store for the visiting delegates this year.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to Ball & Jackson, for a pair of two-storey semi-detached brick dwellings near Marion street, on the west side of Roncesvalles avenue, to cost \$3,200; to Douglas Bros., for repairing the warehouse at 124 Adelaide street west, to cost \$4,100; to Matthews Bros., for a two-storey brick addition to factory on the north side of Dundas street, to cost \$4,000; to J. C. Scott, for a two-storey lumber shed and storehouse at 106 River street, to cost \$1,100; to J. F. Brown, for a two-storey and attic residence on Lowther avenue near Admiral road, to cost \$6,400.

PLUMBING AND HEATING NOTES.

The Leamington Acetylene Gas Machine Co., Leamington, Ont., has dissolved.

Wilfrid Rivet and Ferdinand Lapointe have registered as proprietors of Rivet & Co., plumbers, Montreal.

The stock of M. Walsh & Co., plumbers, Montreal, has been slightly damaged by smoke and water; insured.

The assets of Lafrance & Lariviere, plumbers, Montreal, are to be sold on May 18. A. Desmarteau is curator.

Pollett & Co, plumbers, Woodstock, are putting one of Guest's organ motors in the new St. Paul's Church, Woodstock.

Dame Ernestine Riopelle, wife of Joseph Lafrance, has registered as proprietress of Joseph Lafrance & Cie., plumbers, etc., Montreal.

Permits have been issued in Hamilton to John Henry for a two-storey brick dwelling on Wellington street, between Grove and Stinson, for E. Robinson, to cost \$1,600, and to W. Lane for a brick cottage on Reginald street for William Buggie, to cost \$650.

PLUMBING AND HEATING CONTRACTS.

The Bennett & Wright Co., Limited, have contracts for plumbing and heating in a residence on Jamieson avenue for W. G. Dean, and in a residence on Lowther avenue for Ambrose Kent.

We have Just Received
a Large Shipment of

Quick Meal Stoves

Including full lines in the
Gasoline, and Wick and
Wickless Blue Flame Oil
Stoves. . .

We are sole Canadian Agents for these stoves,
which are in great demand because of their well-known
reliability and improved construction.

All orders sent us will be promptly filled. Full
description and prices on application.

Our Oxford Gas Ranges, in different sizes and
styles, always prove popular sellers.

Have you our catalogue ?

The Gurney Foundry Co., Limited, Toronto

The Gurney Massey Co., Limited, Montreal



We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you
want proper goods at proper prices you should write us,
which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

HE USES

**Heintz
Traps.**

They save his steam,
his fuel, his money, and
are so effective

For Steam Heating or Power Plants.

The Jas. Morrison Brass Mfg. Co.
Toronto. Limited
Engineers' and Plumbers' Supplies.



Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

ARCADE FILE WORKS' FILE TALKS.

FROM a valuable text book to be distributed gratuitously at a later date to dealers in files, we are permitted to make the following extracts. This valuable book, when completed, will be mailed free to those interested in the use of files, and



Fig. 15.

may be obtained by sending addresses to Arcade File Works, No. 97 Chambers street,

New York. See advertisement on page 35 :

V.

As the teeth of files of rectangular cross-section are not fully formed at the corners, it is not possible to file a full square with them, since the rounded corners of the file leave a small fillet in the angle of the work.

By grinding a safety edge on a full-cut file, teeth projecting to the extreme corner will be obtained, and the angle of the work can be completely formed.

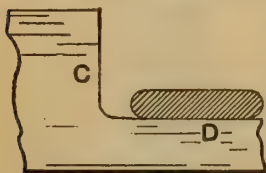


Fig. 16 A.

As these corner teeth are very delicate, they must be used only for the finishing strokes, which virtually limits this file to that one operation, as only the edge or the side opposite the safe edge can be used for other work without injury to the corner teeth. It will usually be found quite satisfactory to

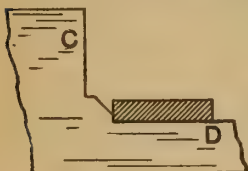


Fig. 16 B.

finish these corners with the edge of a small, finely cut half-round file, used as shown in Fig. 15. By canting the file slightly

and using a reasonable amount of care, good results will be obtained in this way. A carefully fitted corner, as shown in Fig. 16 A, is difficult to obtain. A flat or square file used on surface C and D is very apt to get into the fillet, and, if a safety edge is used, leaving the work as shown in Fig.

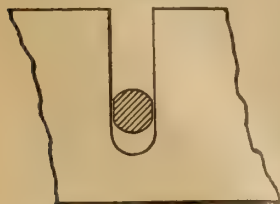


Fig. 17.

16 B, considerable difficulty will be had in bringing down the corner with a round file without its cutting into the faces C and D. A flat file, with rounded edges and the teeth ground from one side, makes a good file for work of this character, when the curvature of the file's edge conforms reasonably close with the curve of the fillet. [The faces C and D, after being

finished, will not be injured in the use of the safety side file. The faces will steady the tool, and its round edges will form the corners, it, of course, being worked in from each side of the angle.

When the end of a slot or mortise is to be filed circular, the round file usually does the work. As there is difficulty in preventing the round file from cutting into the sides of the slot, it will be found advantageous, when much of this work is to be done, to take a round file somewhat larger in diameter than the width of the slot, and grind flats on opposite sides, making it

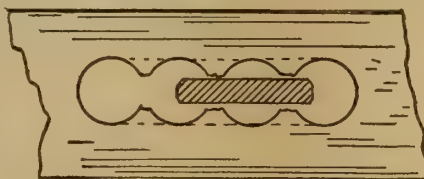


Fig. 18.

narrow enough to work freely in the slot, as shown in Fig. 17. When, however, the ends of the slot are formed by a drill and reamer, and the sides filed down to the dotted lines, as shown in Fig. 18, the edges of the file should not only be safe, but rounded, as shown, to prevent the corner teeth from gouging into the curved ends.

Correct methods of holding work for filing must not be overlooked. If the work is large and heavy, it will simply require suitable, rigid support to bring it to the proper height to be operated upon. A very large percentage of the work will be held in a vise. It is important that the work surface be as close down to the top of the jaws as possible, in order that it can be rigidly held.

If the work must be held by its finished surfaces, smooth vise jaws must be used. As it would be impossible to keep the jaws

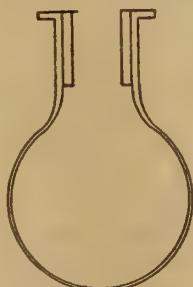


Fig. 19 A.



Fig. 19 B.

in this condition, false jaws must be used between the work and the vise jaws. These can be made of soft copper or sheet lead, pounded into the proper form to fit nicely over the jaws. The spring vise jaw shown in Fig. 19 is well adapted to this purpose. Paper fibre faces applied to these jaws are excellent when the surface of the work caught is large enough to distribute the pressure over the face fairly well.

When a large amount of bevel filing is to

be done some form of jig or clamp should be used to hold the surface filed in a horizontal plane, as shown in Fig. 20.

If very thin work is to be filed on its faces, it will not be possible to hold it in the common vise, as the top edges of the jaws are usually worn rounding, and the work is frequently of irregular outline. It may be secured to a block of hard wood by brad-



Fig. 20.

ding around its edges, and the block held in the vise. The brads will file down with the work, and the flat surface prevents the work from springing.

THE BRITISH TINPLATE TRADE SITUATION.

Mr. S. J. Burrell Prior sends us the following concise statement on the present situation in the tinplate trade: "There is plenty of room for reform in the tinplate trade. The masters' association has died, the men's union is defunct—some of the men belong to the Dockers' Union, some to the Steel Smelters' Union and others are endeavoring to erect a new union on the ruins of the old one. Everywhere is disorganization and chaos. No wonder that any proposal to end such a state of things should be entertained, and, therefore, the attempt now being made to float a new alliance on the lines of the trusts and syndicates which are so much the fashion in America and on the Continent. The new scheme reproduces all the most objectionable features of the worst of these trusts, and seems foredoomed to failure. But, if the discussion results in the organization of the men, uniformity of wages, and a conciliation board, so as to end the continual wretched squabbles and strikes which play such havoc with the trade and will destroy it altogether if continued, then both sellers and buyers will have reason to rejoice. South Wales people have to realize that trade will leave them if they do not set their house in order. They are not now, as formerly, the only tinplate makers, but have very formidable competitors who will have to be reckoned with. Whether any combination can last is, however, a matter of opinion. We have seen a good many combinations in the trade, but, so far, none have been permanent."—Iron and Coal Trades Review.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

Time Saved is Money Saved.

Your Customers will Save Time by using

ARCADE FILES.

And we stand back of this statement with an offer to refund the money for any ARCADE FILES that do not cut faster and wear longer than any other make.



"See that key? It took me two hours to fit it with a — file. The same job I'm doing now in half an hour with an Arcade."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

CANADIAN PRODUCTS WANTED.

The London, England, representative of **HARDWARE AND METAL** writes that the following are some of the trade inquiries received during the two weeks ending April 21 at the Canadian Government offices in London:

The names of exporters of birch spool-wood from Quebec and the Maritime Provinces are asked for.

An inquiry has been received from one of the paper trade journals for the names of wood-flour exporters. The product is used to some extent as a filling in the manufacture of certain grades of paper.

A firm of manufacturers and importers of turnery and domestic joinery have asked to be placed in communication with Canadian exporters of bass broom handles and ash rake and fork handles.

Inquiry has been made for porcupine quills, and the name of the firm will be given to anyone who is able to ship these goods.

The manufacturer of a patent automatic weighing and sack-filling machine, which, he thinks, should be specially useful to Canadian shippers of grain, has been inquiring as to how he can best extend the sale in the Dominion.

A member of a Scotch firm is shortly leaving for Canada, and would like to have the names of reliable shippers of oatmeal, packers of canned and dried fruits, and manufacturers of brooms, broom handles, washboards, and woodenware, upon whom he can call with a view to business.

An inquiry has been received through the agent of the Government in Glasgow from a firm who are prepared to correspond with exporters of turkeys for the next season's supplies. They have had a large experience in the business, so far as Russian and other foreign turkeys are concerned.

A Dundee firm of 50 years standing have asked to be referred to commission firms in Toronto and Montreal suitable to represent them in jute and linen goods.

A firm of wholesale manufacturing opticians, scientific instrument makers and electricians wish to be placed in communication with firms in the Dominion open to do business in these lines.

An inquiry has been received from a Swedish firm for a Canadian open to export aspen wood for the manufacture of match splints. Large quantities are already imported from Russia.

A Spanish house has asked to be furnished with names of Canadian fruit brokers, timber merchants and manufacturers of white phosphorus.

[Persons who can furnish the desired information in regard to any of the above inquiries can have such forwarded to destination through **HARDWARE AND METAL**.—The Editor.]

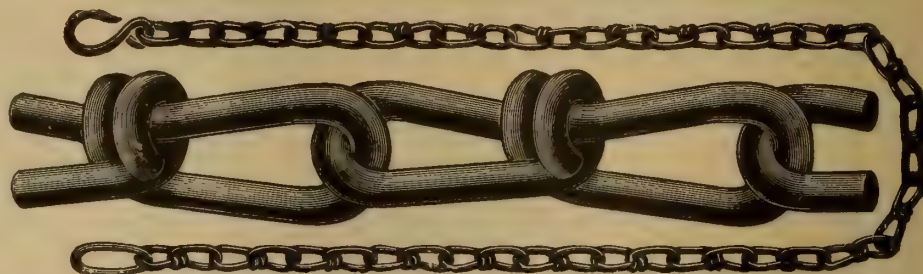
We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.



**RAMSAY'S
EXTERIOR
LEAD**

**RAMSAY'S
VARNISH
STAINS**

Never before has such a money-maker in the lead market been offered to the dealer. See our testimonial booklet, free for the asking, telling you all about it. Painters and Decorators all over the country are pleased with Exterior.

A beautiful range of colors, do the staining and varnishing at one stroke, not at all expensive, cost no more than oil stains which have to be varnished afterwards.

PAINT

Ramsay's Paints are made from pure materials. They are pure paints and they are the best that can be made. We try to make paints just right, and our 57 years experience help us a good deal. Ramsay's Paints are made to please the consumer, and guaranteed to be right. Ramsay's Paints pay, and can be handled at a profit.

A. RAMSAY & SON,

**PAINT
MAKERS,**

MONTREAL.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
 Tinplate, Tinned Sheets, Terne Plates, Canada Plates, Gal-
 vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
 and Steel—Hoops and Bands, Proved Coil Chain, Brass and
 Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyt & Fairbank**

Petrolia, Ont.

Headquarters for...

Oil and Artesian Well
 Pumps, Casing, Tubing
 Fittings, Drilling
 Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE McKINNON BUILDING
 Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
 Cable "LeVesconte" Toronto.

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ESTABLISHED

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**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAFINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
 Hammer, and all kinds of Handles. Neck Yokes,
 Singletrees, and Doubletrees, Bench Saws, Exercise
 Clubs, Baseball Bats, etc., etc. Do you sell any
 Shaved Pattern and Octagon Axe Handles? The
 largest and best trade in Canada does, because they
 give best satisfaction. All stock air-dried, not kiln-
 dried. If you are going to be in it, place your
 order with

GARDNER BROS. & CO

ARE YOU A BUYER of

**Hardware, Metals,
 Paints, Oils, etc.?**

Send us Post Card, and a copy of the latest
 issue of **HARDWARE AND METAL**, the lead-
 ing authority on these trades, will be sent to
 you free by next mail. Address:

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
 26 Front St. West, TORONTO
 109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"**

**TIRE UPSETTERS
 WILL UPSET TIRES**

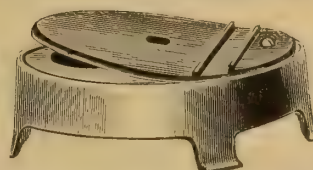
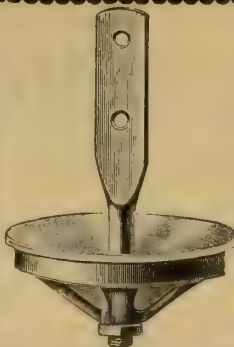
Some machines sold as Upsetters will not.
 Perhaps you make as much money on the
 sale of a useless Upsetter as on a good
 one, but your customer does not. He
 don't want a machine because it is called
 an Upsetter; he wants a machine to upset
 tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
 HESPELER, ONT.**

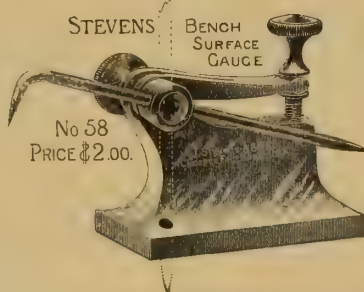
Valves and Plungers.

Only the very best leather and rubber are used
 in these goods, and all are carefully and evenly
 fitted, making them the best of their kind.



**Berger Bros.
 Co.**

PHILADELPHIA, U.S.A.

STEVENS ...FINE TOOLSWe make a perfect line
of**CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool
 Makers' Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools.
 It is also a valuable hand-book of information for mechanics and people
 interested in such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass, U.S.A.

Carried by our representatives at Toronto and Montreal.



Don't
 Be
 Discouraged

Unsanitary wall coatings breed unhealthfulness in the home. Continual
 papering of your wall's means constant expense, and it is a time and
 patience trial. But there is one healthful, permanent, easily-applied wall
 coating that hardens with age, and is absolutely sanitary—Church's Ala-
 bastine (never sold in bulk). For whitening or tinting your walls or ceilings, it is
 acknowledged everywhere to be without a peer. Here and there you will find a
 dealer who does not sell it, but such cases are rare. Nine-tenths of all the paint
 dealers in Canada can show you a card of 16 beautiful tints (and White).

Use Alabastine for Your Walls

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid." It gives
 valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ontario.**HUTCHISON, SHURLY & DERRETT**

**DOVERCOURT
 TWINE MILLS.**

**1078 BLOOR STREET WEST,
 TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
 to furnish the best made goods in the market at closest prices and make
 prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
 Cotton and Russian Hemp Plough Lines, plain and colored.
 Cotton and Linen Fish Lines, laid and braided.
 Netted Hammocks, white and colored, Tennis and Fly Nets.
 Skipping Ropes, Jute, Hemp and Flax Twines.**

JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.

CURRENT MARKET QUOTATIONS

May 12, 1899.

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—		
56 and 28 lb. ingots, per lb.	0 29	
Straits	0 28	0 28½

Tin Plates.

Charcoal Plates—Bright.		
M.L.S., equal to Bradley.	Per box.	
I.C., usual sizes	\$5 00	
I.X.	6 25	
I.X.X.	7 50	
R. & Co.—		
I.C.	4 75	5 00
I.X.	6 00	6 25
I.X.X.	7 25	7 50

Famous—		
I.C.	5 00	
I.X.	6 25	
I.X.X.	7 50	
Raven & Vulture Grades—		
I.C., usual sizes	4 00	
I.X.	4 75	
I.X.X.	5 50	
I.X.X.X.	6 25	
D.C., 12½x17	3 50	
D.X.	4 25	
D.X.X.	6 25	

Note.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—		
I.C., usual sizes	3 15	
I.C., special sizes, base.	3 25	
20x28.	6 75	

Charcoal Plates—Terne.

Dean or J. G. Grade—		
I.C., 20x28, 112 sheets	6 25	
I.X., Terne Tin	7 75	
I.C., Orion	6 25	
I.X., Orion	7 25	7 75

Charcoal Tin Boiler Plates.

Cookley Grade—		
X.X., 14x56, 50 sheet box		
14x60	0 05½	0 06
14x65.		

Tinned Sheets.

72x30 up to 24 gauge.	0 06	0 06½
26	0 06½	0 07
28	0 07½	0 07½

Iron and Steel.

Common Bar, per 100 lbs	Base Price	
" from factory	1 75	
Refined	1 65	1 70
Horse Shoe	2 20	
Hoop steel, 1½ to 3 in. base,	1 85	1 90
extras for smaller sizes		
Swedish	2 60	4 00
Sleigh Shoe Steel " base	2 50	
Tire Steel.	2 50	
Machinery	2 65	
Cast Steel, per lb	0 10	0 14
Toe Calk Steel	2 95	
Toe Weight Steel	6 10	
Thos. Firth & Sons' Cast Steel	0 12	0 14
Russian Sheet, per lb	0 10½	
Tank Plates, 1-5 and thicker.	2 00	2 25
Boiler Rivets	4 50	5 00

Boiler Tubes.

1½-inch		
2		
2½		

Steel Boiler Plate.

3-16 inch		
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3-16 inch		
¾ inch and thicker		

Black Sheets.

18 gauge	2 40	
20	2 50	
22 to 24	2 55	
26	2 65	
28	2 85	

Canada Plates.

All dull, 52 sheets	2 50	
Half polished	2 60	
All bright	3 10	

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,		
\$3.10; ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch,		
\$1.85; 1½ inch, \$6.50; 2 inch, \$8.00; 2 inch,		
\$11.00. 2½ to 6 inch, discount 60 and 10 p.c.		
Galvanized, ¼ to ¾ inch, 7½ inch,		
\$6.00; ¾ inch, \$7.50; 1 inch, \$16.50; 1½ inch,		
\$15.00; 2 inch, \$18.50; 2 inch, \$25.00.		

Galvanized Iron.

G. C. Comet.	Amer.	Queen's
16 gauge	3 75	4 00
18 to 24 gauge	4 00	3 75
26	4 25	3 50
28	4 50	4 15
28	4 50	3 75
28	4 50	4 50
28	4 50	4 75

Less than case lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs		
" 3-16 "	6 90	
" 5-16 "	4 40	
" 3-4 "	4 00	
" 7-16 "	3 80	
" 1-2 "	2 75	
" 3-8 "	3 55	
" 1-2 "	3 45	
" 3-8 "	3 60	5 90

Trace, per doz. pairs.

Jack chain, iron, single, per		
doz. yards	0 13	0 50

Jack chain, double, per doz.

yards

Jack chain, brass, single, per

doz. yards

Copper.

English B. S., ton lots	0 19	0 19½
Lake Superior		

Bolt or Bar.

Cut lengths, round, ½ to ¾ in.	0 23	0 24
1 to 2 inches	0 23	0 24

Sheet.

Untinned, 14 oz., and light, 16	0 23	0 23½
oz., 14x48 and 14x60		

Untinned, 14 oz., and light, 16

oz., irregular sizes.

Note.—Extra for tinning, 2 cents per

pound, and tinning and half planishing 3

cents per pound.

Tinned copper sheets

Planished

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25	
" 35 to 45 "	0 24	
" 50-lb. and above, "	0 23	

Boiler and T. K. Pitts.

Plain Tinned, per lb

Spun, per lb

Brass.

Roll and Sheet, 14 to 30 gauge, net list.		
Sheets, hard-rolled, 2x4	0 24	0 2
Tubing, base, per lb.	0 24	0 25

Zinc Spelter

Foreign, per lb	0 07½	0 07½
Domestic		

Zinc Sheet.

cwt. casks	0 08½	
Part casks	0 08½	

Lead.

Imported Pig, per lb	0 04½	0 04½
Domestic, per lb		

Bar, 1 lb.

Sheets, 2½ lbs. sq. ft., by roll.

Sheets, 3 to 6 lbs., per sq. ft.

by roll.

Note.—Cut sheets ½ cent per lb. extra

Pipe, by the roll, usual weights per yard, lists

at 7 cents per lb. and 17½ per cent. discount

Note.—Cut lengths, net price, waste pipe

8-ft. lengths, lists at 7½ cents.

Shot.

Net list; no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Bar half-and-half	0 17½	0 18½
Refined	0 17½	0 17½
Wiping	0 16½	0 17

Note.—Prices of this graded according to

quantity. The prices of other qualities or

solder in the market indicated by private

orders vary according to composition.

Antimony.

Cookson's, per lb	0 11	0 11½
-------------------	------	-------

White Lead.

Pure, Assoc. guarantee, ground in oil,		
25 lb. irons	6 00	
No. 1 do	5 62	
No. 2 do	5 25	
No. 3 do	4 87½	
No. 4 do	4 50	

Robertson's Chemically Pure

Munro's Select Flake White

Elephant and Decorators' Pure

Brandram's B. B. Genuine

Jame genuine

No. 1

No. 2

White Zinc Paint.

Elephant Snow White	0 08	
Pure White Zinc	0 08	
No. 1	0 06	
No. 2	0 05	

Dry White Lead.

Pure, casks	0 04½	
Pure, kegs	0 04½	
No. 1, casks	0 04½	
No. 1, kegs	0 04½	

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)		
Pure, per gallon	1 00	
Second qualities, per gallon	0 90	
Barn (in bbls.)	0 70	0 90

The Sherwin-Williams Paints

Canada Paint Co's Pure

Robertson's Pure

Colors in Oil.

(25 lb. tins, Standard Quality.)		
Venetian Red, per lb	0 05	
Chrome Yellow	0 11	
Golden Ochre	0 06	
French	0 05	
Marine Black	0 09	
" Green	0 09	
Chrome	0 08	
French Imperial Green	0 19	

Colors, Dry.

Yellow Ochre (J. O.) bbls. per		
cwt	1 35	1 40
Yellow Ochre (J.F.L.S.), bbls.		
per cwt	2 75	
Yellow Ochre (Royal), per		
cwt	1 10	1 15

Brussels Ochre

Venetian Red (best), per cwt.

English Oxides, per cwt.

American Oxides, per cwt

Canadian Oxides, per cwt.

Burnt Sienna, pure, per lb.	0 10	1 90
" Umber, "	0 10	
do " "	0 09	
Drop Black, pure	0 09	
Chrome Yellows, pure	0 18	
Chrome Greens, pure, per lb.	0 12	
Golden Ochre	0 03½	

Ultra marine Blue in 28-lb.

boxes, per lb.

Fire Proof Mineral, per 100 lb.

Genuine Eng. Litharge, per lb

Mortar Color, per 100 lb.

James' Gen. Red Lead, 40 lb

Pure Indian Red, No. 45, lb.

Whiting, per 100 lb.

Paris Green.

250 lb. casks	0 13½	
50 lb. drums	0 14	
1 lb. packages	0 15	
½ lb.	0 18½	
1-lb. tins	0 15½	

Sulphate of Copper.

Casks, for spraying, per lb.	0 06	
100-lb. lots, do. per lb.	0 07	

Putty.

Bladders in bbls.	1 80	
Bladders in 100 or 200 lb. kegs or bxs	1 85	
Bulk in bbls., per 100.	1 85	
Bulk in less quantities	1 80	
25-lb. tins, 4 in case	2 05	
12½-lb. tins, 8 in case	2 30	

Quotations f.o.b. Toronto—10c. per 100 lbs.

extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In bbls.)

Carriage, No. 1	per gal	0 90
Extra do.		1 03
Body Varnish		4 00
Furniture Varnish		0 45
Extra do.		0 80
Demar Varnish		1 40
Hard Oil Finish		1 10
Orange Shellac Varnish		1 80
White Shellac		2 00
Rubbing Varnish		2 40
Brown Japan		0 70
Elastic Oak		0 90

Linseed Oil.

Raw, per gal. net	0 52	
Boiled, per gal. net	0 55	
Outside points 1c. more than above figures		

Turpentine.

1 to 4 barrels, net		85
Outside points 1c. more		

Castor Oil.

In cases, per lb	0 10½	
Small lots	0 11½	

Cod Oil, Etc

Cod Oil, per gal.	0 50	0 55
Pure Olive		1 80
" Neatsfoot		0

Diamond Medal Binder Twine

Pure Manila — Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

BINDER TWINE

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

Central Fire Cartridges pistolsizes, Dom.
30 per cent.
Central Fire Cartridges, Sporting and Mili-
tary, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer-
net list. B.B. Caps, discount 45 per cent
Amer.
Loaded and empty Shells, "Trap" and
"Dominion" grades, 25 per cent. Riva
and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent
Primers, Dom., 30 per cent.
Wads.

Best thick white felt wadding, in ½-lb
bags 1 00
Best thick brown or grey felt wads, in
½ lb. bags 0 70
Best thick white card wads, in boxes
of 500 each, 12 and smaller gauges
Best thick white card wads, in boxes
of 500 each, 10 gauge 0 35
Best thick white card wads, in boxes
of 500 each, 8 gauge 0 55
Thin card wads, in boxes of 1,000
each, 12 and smaller gauges 0 20
Thin card wads, in boxes of 1,000
each, 10 gauge 0 25
Thin card wads in boxes of 1,000
each 8 gauge 0 25
Chemically prepared black edge grey
cloth wads, in boxes of 250 each—
11 and smaller gauge 0 60
9 and 10 gauges 0 70
7 and 8 gauges 0 90
5 and 6 gauges 1 10
Superior chemically prepared pink
edge, best white cloth wads, in
boxes of 250 each—
11 and smaller gauge 1 15
9 and 10 gauges 1 40
7 and 8 gauges 1 65
5 and 6 gauges 1 90

Adzes.
Discount, 33½ per cent.

Anvils.
Per lb. 0 10
Anvil and Vice combined,
each 4 50
Wilkinson & Co.'s Anvils, lb. 0 09½
Wilkinson & Co.'s Vices, lb. 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised
list.
Hollow Stearn's, per dozen 13 00
Adjustable Stearn's, each 4 50
Post-hole, Vaughan's, each 60 90

AXES.
Splitting Axes 5 25
Chopping Axes—
Single List, per doz. 6 00
Double List, " 11 00
Bench Axes, 40 and 15 p.c.
Broad Axes, 33½ per cent.

Bath Tubs.
Zinc, discount 3 90
Copper, discount, 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised
list. Boxing extra

Anti-Friction Metal.
"Tandem" A 0 23
" " B 0 19
" " C 0 11½
" " M. March 0 21
" " 2 0 15
" " 3 0 10
Canadian 0 08½
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal 0 15
Mystic Metal 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.

Door.
Gongs Sargent's 5 50
Peterboro', discount 50 per cent.
Cow.
American make, discount 66½ per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each 1 25

House.
American, per lb 0 35
Bellows.
Hand, per doz. 3 35
Moulders', per doz. 7 50
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47½ to 50 per cent.
Expansive
Clark's 40 per cent.

Gimlet.
Clark's, per doz. 0 65
Diamond, Shell, per doz. 1 00
Nail and Spike per gross 2 25

Blind Rollers.
Annex, per doz. 1 25
Mascott, " 1 35
Erminie, " 1 00

Blind and Bed Staples.
All sizes, per lb 7½ 0 12

Bolts and Nuts.

Norway Bolts, full square 70
Common Carriage Bolts, 5-16 & under 60
" " " ¾ and larger 55
" " " full square 70
Machine Bolts, all size 60
Coach Screws 75
Sleigh Shoe Bolts 75
Blank Bolts 60
Bolt Ends 65
Nuts, square 4½ c.
Nuts, hexagon 5 c.
Tapping Nuts 70
Tie Bolts 65 and 10
Stove Bol's 65 and 10

Boot Calks.
Small and medium, per M 4 50
Small heel, per M 4½ 5

Broilers.
Light, dis. 65 to 67½ per cent.
Reversible, dis. 65 to 67½ per cent.
Vegetable, per doz., dis. 37½ per cent.
Henia, No. 3, " 6 00
Henia, No. 9, " 7 00
Queen City 7 50

Butchers' Cleavers.
German, per doz. 6 00
American, per doz. 12 00

Building Paper, Etc.
Plain building, per roll 0 30
Tarred lining, per roll 0 40
Tarred roofing, per 100 lb 1 45
Coal Tar, per barrel 3 75
Pitch, per 100-lb 0 60
Carpet felt, per 100 lb 2 19

Rail Rings.
Copper, \$1.50 for 2½ in. and \$2 for 2 in.

Butts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.
Cast Iron
Loose Pin, dis. 60 to 60 and 10 per cent.

Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Gen. Bronzed, per pair 0 40

Cards.
Horse per doz. 0 60

Carpet Sweepers.
Bissell, per doz 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz 29 00
Grand Rapids, " 24 0

Carpet Stretchers.
American, per doz 1 00
Bullards, per doz 6 50

Castors.
Bed new list, dis. 55 to 57½ per cent.
Plate, dis. 52½ to 57½ per cent.

Cattle Leaders.
Nos 31 and 32, per gross 8 50

Cement.
Canadian Portland 2 65
English " 2 80
Belgium " 2 50
Canadian hydraulic 1 00
Figures are for barrel lots.

Chalk.
Carpenters Colored, per
gross 0 45
White lump, per cwt 0 60
Red 0 05
Crayon, per gross 0 14

Chisels.
Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warlock's, dis. 40 and 10 per cent.

Churns.
Revolving Churns, metal frames—No. 0, \$3;
No. 1, \$3.20—No. 2, \$3.40—No. 3, \$3.75—No.
4, \$4.50—No. 5, \$5.90 each. Ditto, wood
frames—15c. each less than above. Terms 4
months or 3 p.c. off 30 days, f.o.b.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain 3 25
" embossed 3 50
Connections 1 10

Compasses, Dividers, Etc.
American, dis. 62½ to 65 per cent

Cradles, Grain.
Canadian, dis. 20 per cent from factory.

Dies.
Hart Mfg. Co. (pipe es), (Amer. list), dis
40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis.
per cent.

Door Springs.
Torrey's Rod, per doz. 15 p.c. 2 00
Coil, per doz 0 88
English per doz 2 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz. net list.

DRILL BITS.
Morse, dis. 37½ to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 50 and 10
70 per cent.

Black Diamond, 50 and 10 to 60 per cent
Kearney & Foose, 60 and 10 per cent to 60,
10, 10.
Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Mechanics' Star & File Mfg. Co. Discount
60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60,
and 5 p.c. revised list.

FREEZERS
Ice Cream.

White Mountain, 1 to 25 qt. 1 35
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67½ per cent.

FRUIT PRESSES.
Henis', per doz. 3 25
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each. 1 65

GLASS.
Window.
Box Price.

Star
Size United
Inches.
Under 26 2 00
26 to 40 2 15
41 to 50 4 50
51 to 60 4 75
61 to 70 5 10
71 to 80 5 50
81 to 85 6 10
86 to 90 7 25
91 to 95
96 to 100
101 to 105
106 to 110
Per 50 ft. Per 100 ft. Per 50 ft. Per 100 ft.

HALTERS.
Rope, ¾ per gross 8 25
" ½ " 9 25
" ¼ " 11 00
Leather, 1 in., per doz. 3 87½
Web, — per doz. 5 15

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis.
25 to 27½ per cent.

Tack.
Magnetic per doz. 1 10

Sledge.
Canadian, per lb 0 07½
Ball Pean.
English and Can., per lb. 0 22

HANDLES.
Axe, per doz., net 1 50
Store door, per doz 1 00
Chest, per doz. pairs 0 40

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz. 1 00

Plane.
American per gross 3 1
Canadian, 45 per cent.

Hammer and Hatchet.
Canadian, per pair 0 13½

HANGERS.
Door, 4 and 5 inch, per pair. 0 40
Lanes, 62½ per cent.

HARVEST TOOLS.
Discount, 60, 10 and 5 per cent.

HATCHETS.
Canadian, dis. 40 to 42½ per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.
Heavy T and strap, 4-in., per lb. 0 05
" " 5-in., " 0 01½
" " 6-in., " 0 01½
" " 8-in., " 0 01½
" " 10-in., " 0 04

crew hook and hinge
6 to 12 in., per 100 lbs. 3 75
14 in. up, per 100 lbs. 3 00
Per gro. pair
Spring 8 50

HOES.
Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
Planter, per doz 4 00

HOOKS.			NETTING.			SASH WEIGHTS.			SAWS.			Zinc tacks.		
Cast Iron.			Poultry, 50 and 5 per cent. for McMullen's.			Sectional, per 100 lbs.			Solid.			Leather carpet tacks.		
Wird Cage, per doz.	0 50	1 10	OIL.			Hand, Disston's, dis. 12% to 15 p.c.			S. & D., 40 per cent.			Copper tacks.		
Clothes Line, per doz.	0 27	0 63	Canada refined Toronto)			Crosscut, Disston's, per ft.			S. & D., dis. 35 p.c. on Nos. 2 and 3.			Clout nails, blued and tinned.		
Harness, per doz.	0 72	0 88	Sarnia Water White			Hack, complete, each			Hack, complete, each			Chair nails.		
Hat and Coat, per gross.	1 00	3 00	" Prime Water			frame only			Patent brads			Cigar box nails		
Candelier, per doz.	0 50	1 00	American w. w.			SAW SETS.			" " in bulk			Fine finishing		
Wrought Iron.			OILERS.			" " solid heads, in bulk			Picture frame points			Lining tacks, in papers		
Wrought Hooks and Staples, Can., dis. 47 1/2 per cent.			McClary's Model galvan. oil can, with pump, 5 gal., per doz.			SALES.			" " in bulk			Saddle nails in papers		
Wire.			Zinc and tin, dis. 50, 50 and 10.			Gurney Scales, 50 p.c.			" " in bulk			Taffing buttons, 22 line, in dozens only		
Hat and Coat, discount 60 per cent.	0 60	0 70	Copper, per doz.			B. S. & M. Scales, 50 p.c.			Tin capped trunk nails			Zinc glazier's points		
Screw, bright, dis. 65 and 10 per cent.			Brass,			Champion, 60 per cent.			Double pointed tacks					
HORSE NAILS.			Malleable, dis. 25 per cent.			Fairbanks Standard, 45 p.c.			TAPE LINES.					
"C" brand 50 p.c. dis.			FAILS.			" " Richelleu, 60 p.c.			English, ass skin, per doz.					
"M" brand 50 p.c.			Galvanized, straight pattern			Chatillon Spring Balances, 25 p.c.			English, Patent Leather					
"P. B." dis. 50 p.c.			No. 12			Screens.			Chesterman's each					
Acadian, 50 and 20 p.c., countersunk head.			Galvanized, straight pattern			Door, patent per doz.			Steel, each					
HORSESHOES.			No. 14			Window, per doz.			THERMOMETERS					
F.O.B. Toronto.			Galvanized, straight pattern			Screw Drivers.			Tin case and dairy, dis. 75 to 75 and 10 p.c.					
No. 2 No. 1.			Flaring pattern, No. 11			Screws.			Tinware.					
and and			" " No. 12			Wood, F. H., iron, and steel, 82 1/2 and 5 p.c.			Stamped, dis. Assn. list, 80 per cent.					
larger smaller.			" " No. 13			Wood, R. H., brass, dis. 75 and 5 p.c.			Japanned, prices on application.					
Light, medium, and heavy.			" " No. 14			Wood, R. H., dis. 67 1/2 and 5 p.c.			Pieced, prices on application.					
Snow shoes.			PICKS.			" F. H., bronze, dis. 67 1/2 and 5 p.c.			TRANSOM LIFTERS.					
Steel Shoes.			Per doz.			" R. H., 62 1/2 and 5 p.c.			Payson's per doz.					
Light			Porcelain head, per gross.			Drive Screws, 82 1/2 and 5 per cent.			Game, Newhouse, dis. 40 p.c.					
Featherweight (all sizes).			Brass head,			Bench, wood, per doz.			Game, H. & N., P. S. & W., 65 p.c.					
Star, per doz.			PLANES.			Discount, per doz. net.			Game, steel, 72 1/2, 75 p.c.					
ICE PICKS.			Wood, bench, Canadian dis. 55 per cent.			SCYTHES.			TROWELS.					
Brass spun, 7 1/2 p.c. dis. off new list.			American dis. 55			Canadian, dis. 50 p.c.			Disston's, discount 10 per cent.					
Copper, per lb.			Wood, fancy Canadian or American, 37 1/2 to 40 per cent.			SHEARS			German, per doz.					
American, 60 and 10 to 65 and 5 p.c.			Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.			Seymour's, dis. 50 and 10 p.c.			Brade's					
KEYS.			Miscellaneous, dis. 25 to 27 1/2 per cent.			Clauses, full nickel, 50 and 10 p.c.			S. & D., discount 35 per cent.					
Lock, Can., dis., 50 p.c.			Bailey's Victor, 25 per cent.			" Japanned handles, 67 1/2 p.c. off.								
Cabinet, trunk, and padlock, am. per gross.			PLANE IRONS.			Seymour or Heinisch tailor shears. 15 p.c.								
KNOBS.			English, per doz.			SHOVELS AND SPADES.								
Door, japanned and N. P., per doz.			Button's Genuine, per doz pairs, dis. 37 1/2			Harnes, German, dis. 35 to 37 1/2 p.c.								
Bronze, Berlin, per doz.			Rutton's Imitation, per doz.			Acme								
Bronze Genuine, per doz.			German, per doz.			Lock, Andrews								
Sauter, porcelain, F. & L. screw, per gross.			PULLEYS.			SOLDIERING IRONS.								
KNIVES.			Hothouse, per doz.			2 lb., per lb.								
Clau s bread, cake, and paring knives, \$7 00 doz. sets net, to 10 per cent.			Axle			WROUGHT SPIKES.								
Christie, bread, cake, and paring knives, \$7 00 doz. sets, with 10 p.c. off.			Screw			Discount, 35 to 40 per cent.								
Hay knives, spear point, L. or T handle, 60 10 and 5 per cent.			Awning			SQUARES.								
Lightning, per doz.			CANADIAN CISTERN.			Iron, per doz.								
Health's, \$7.75 net.			Canadian pitcher spout.			Steel, dis. 70 per cent., revised list.								
LANTERNS.			PUNCHES.			Try and bevel, dis. 50 to 52 1/2 p.c.								
Cold Blast, per doz.			Saddlers, per doz.			Galvanized								
LEMON SQUEEZERS.			Conductors			Bright								
Porcelain lined, per doz.			Tinners' solid, per set.			American dis. 25 p.c.								
Galvanize t.			" hollow, per inch.			STONE.								
King, wood.			RAKES.			Washita								
King, glass			Cast steel and malleable Canadian, list dis. 60, 10 and 5 p.c. revised list.			Hindostan								
All glass.			Wood, 25 per cent.			" slip,								
LINES.			RASPS AND HORSE RASPS.			Labrador								
Fish, per gross.			New Nicholson horse rasp, discount 60 p.c.			" Axe								
Chal.			Globe File Co.'s rasps, 60 and 10 to 70 p.c.			Turkey								
LOCKS.			Heller's Horse rasps, 50 to 50 and 5 p.c.			Arkansas								
Canadian, dis. 50 p.c.			RAZORS.			Scythe, per gross								
Russell & Erwin, per doz.			Geo. Butler & Co.'s			Grind, per ton								
Cabinet.			Roker's			Stove Polish.								
Eagle, dis. 30 p.c.			Wade & Butcher's			Enameline								
Padlock.			Theile & Quack's			No. 4-3 dozen in case, net cash								
English and Am., per doz.			RIVETS AND BURRS.			No. 6-3 dozen in case,								
Scandinavian.			Carriage, Section, Wagon Box Rivets, etc. (Steel), 60 p.c.			STEP LADDERS.								
Eagle, dis. 15 to 17 1/2 p.c.			Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 55 p.c.			TACKS BRADS, ETC.								
MACHINE SCREWS.														

HAM & NOTT MFG. CO.

Limited

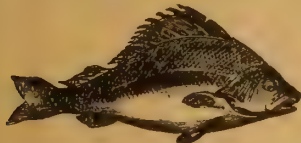
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Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

Fishing Tackle.



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goods are the best. When you buy from us you buy from the largest makers and oldest house in England. Established 1800.

The Allcock Lait & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered Trade Mark Stag Brand Hammocks.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting —and— Fencing.

Made by

The Ontario Wire Fencing Co.
Limited
PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
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Agent for Railway Fencing. (20)

CHARLES F. CLARK,
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THE BRADSTREET COMPANY,
Executive Offices Proprietors.

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The Bradstreet Company is the oldest and, financially,
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interest and under one management—with wider rami-
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it expends more money every year for the collection and
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in the world.

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NEW Automatic shell extracting,
double action, small frame.
Weights 12 oz. Rebounding look. 32
caliber. 5 shot.

Made with shorter barrel for bicycle
use.

The most perfect small pistol made.



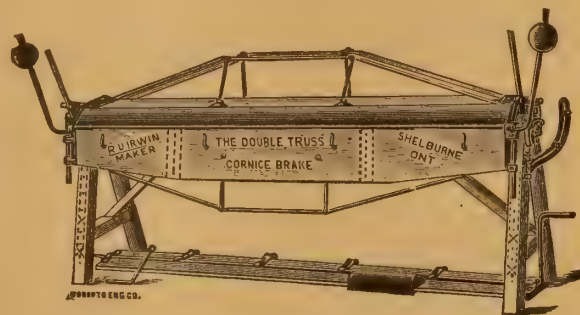
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CATALOGUE.

Forehand Arms Co.

Manufacturers of
the

Forehand Guns

Worcester,
Mass.



This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. SHELBURNE, ONT.

The "Daisy"

REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
churn.

Made only by

THE WORTMAN & WARD MFG. CO.

Limited

London, Ont.

Eastern Branch:

60 McGill Street, Montreal, Que.

Trade "DAISY" Mark.



Trade "DAISY" Mark

Est. 1863

Inc. 1895

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals



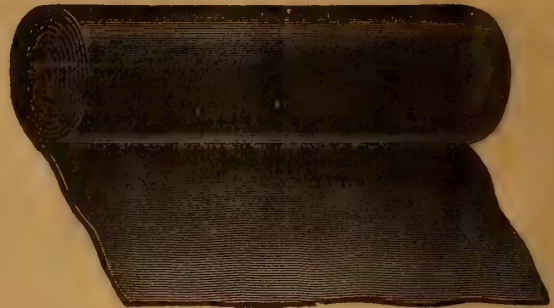
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By **JURORS** at
International Expositions
Special Prize

Gold Medal at Atlanta, 1895



HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand
as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

**They're the
Best.
That's Why**

Your customers all want and insist upon
Robertson's Ready-Mixed Paints.

They know well enough that they cannot
find their equal in other brands. We are
spending thousands of dollars in thoroughly
advertising our paints throughout the country, thereby
creating a demand for them. You can reap the benefit
of this.

Everybody who knows anything knows of

The James Robertson Co.

LIMITED

263-285 King Street West.

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**ROBERTSON'S
PAINTS.**

Name stamped on each Bar.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MAY 20, 1899.

NO. 20



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—40 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—312 St. Paul Street,
Montreal.

Owners and Sole Manufacturers,

266 and 267 West St., New York

An All-round Iron



CANADA

Some makes will suit you all right sometimes,
but you want one that will do it **every time**,
and that brand is the old reliable "QUEEN'S
HEAD."

You can buy lower priced Iron,
but you can't buy cheaper.

JOHN LYSAGHT, Limited
BRISTOL, ENG. MONTREAL.

25 Ideas

for 1 cent.

THEY are yours for a post card—
twenty-five ideas in Radiators.
Each idea represents a style of
its own for a definite purpose, for all
folks who use (or want to) Radiators
that won't leak, and give quick, posi-
tive circulation in a minute after the
heat is turned on.

Twenty-five ideas for
a cent— isn't it worth your while to send for them
and thus know all about the largest Radiator Man-
ufacturers under the British Flag? The origina-
tors of the Screw Nipple connection that does
away with bolts, rods, packing, and absolutely
prevents even a suspicion of a leak.

The
Safford
Radiators

The Dominion Radiator Company

LIMITED

TORONTO, ONTARIO

RICE LEWIS & SON

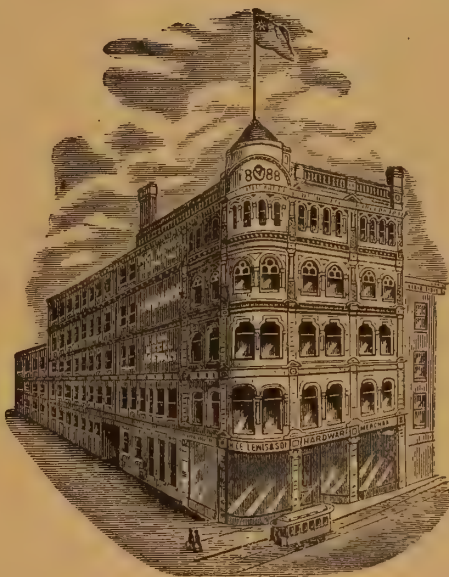
(LIMITED)

ARTHUR B. LEE, President.

A. BURDETT LEE, V. P. and Treas.

Importers of . . .

Bar Iron
Steel
Boiler Plate
Shelf and Heavy
Hardware



MANTELS
GRATES
TILES
Cutlery . .

FINE BUILDERS' HARDWARE.

Cor. King and Victoria Streets

...TORONTO

SAVAGE REPEATING RIFLE

.303 CAL.



Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

Quebec, CAVERHILL, LEARMONT & CO.

LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

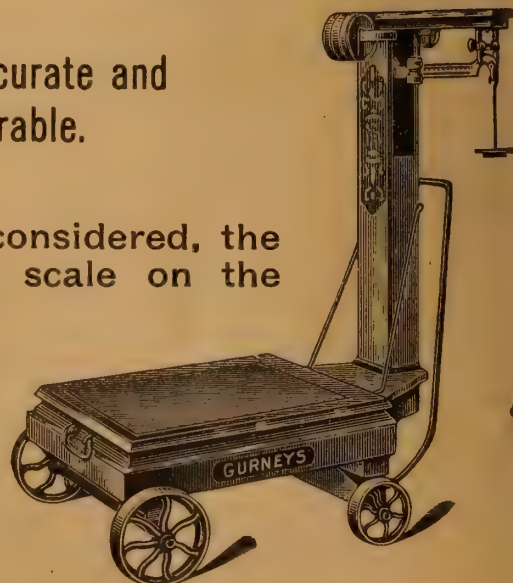
CANADA'S BEST SCALES



GURNEY

Accurate and
Durable.

Quality considered, the
cheapest scale on the
market.

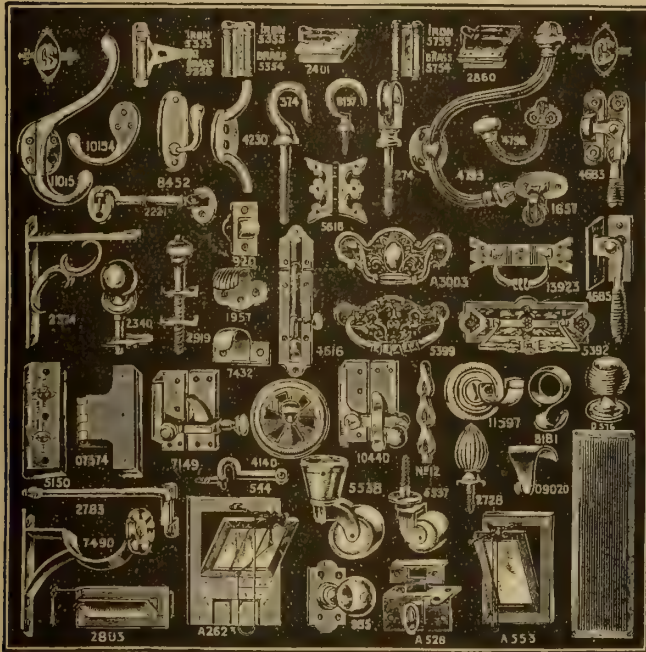


THE GURNEY SCALE CO.

Hamilton, Ontario, Canada.

James Cartland & Son

Manufacturers of every description of **Limited**
CABINET, BUILDERS', FURNISHING AND NAVAL BRASSFOUNDRY
BIRMINGHAM, ENGLAND.



London Showrooms: 57 Holborn Viaduct, E.C.

ALL OUR Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.
Ontario Branch, - Toronto.
Western Branch, - Winnipeg.

OTHER TOOLS ARE VERY GOOD TOOLS, BUT

"YANKEE" TOOLS ARE BETTER



SPIRAL-RATCHET SCREW DRIVER.



RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

SOLD IN CANADA BY

CAVERHILL, LEARMONT & CO.	-	-	-	MONTREAL
FROTHINGHAM & WORKMAN	-	-	-	"
ALEXANDER MACPHERSON & SONS	-	-	-	"
LEWIS BROS & CO.	-	-	-	"
SEYBOLD, SONS & CO.	-	-	-	"
RICE LEWIS & SON, Limited	-	-	-	TORONTO
JOHN BOWMAN HARDWARE AND COAL CO.	-	-	-	LONDON
HOBBS HARDWARE CO.	-	-	-	"
WOOD, VALLANCE & CO.	-	-	-	HAMILTON

Descriptive Circulars will be mailed
on application.

North Bros. Mfg. Co.

Philadelphia, Pa., U.S.A.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220½ Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899.)

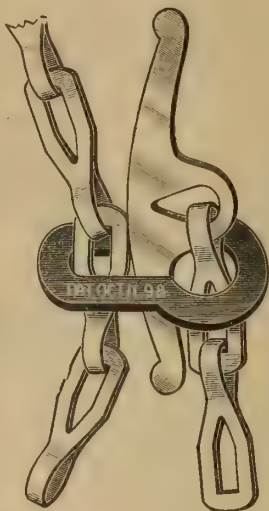
which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.

Ring easily ADJUSTED untilToggle is in place, then absolutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community, Limited

NIAGARA FALLS, ONT.

**DAVID MAXWELL & SONS**

ST. MARYS, ONT., CANADA



Steel Frame.

"MAXWELL FAVORITE CHURN"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

LAWN MOWERS.

High and Low Wheels, from 12-in to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

WHEELBARROWS.

In Four different sizes.

If your Wholesale House does not offer you these articles

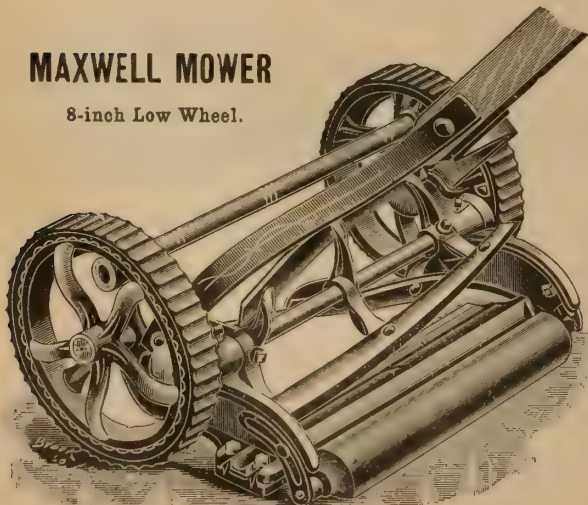
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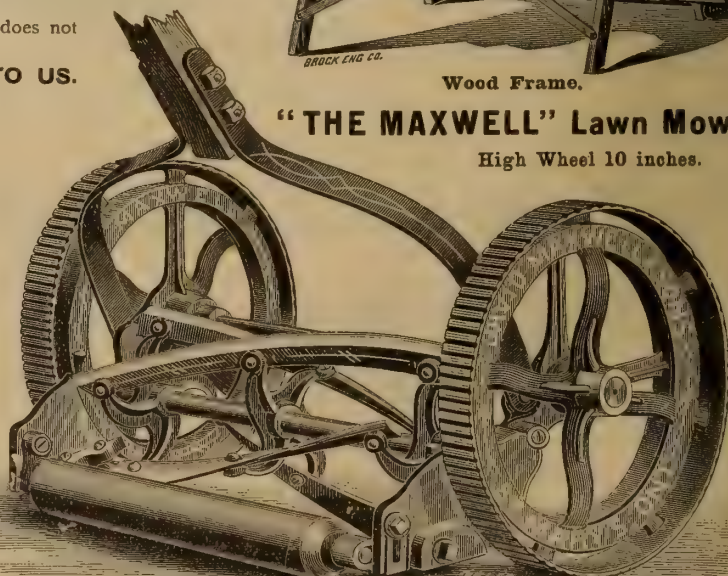
Wood Frame.

MAXWELL MOWER

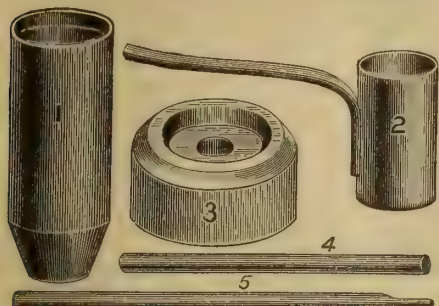
8-inch Low Wheel.

**"THE MAXWELL" Lawn Mower**

High Wheel 10 inches.



RELOADING SETS FOR Snider Shot Cartridges



1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

Lamplough & McNaughton, Montreal

Steel Tray Wheelbarrows

Tubular
Meaford (Columbus)
Railroad or Navy

With Steel Trays (Pan American).

Eastern Agent

ALEXANDER GIBB

22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

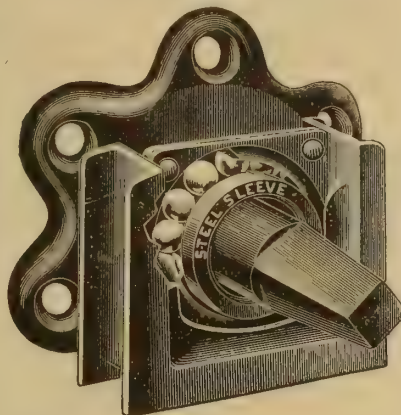
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



This is our Latest Stand, with Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited
W. L. HALDIMAND & SON
32 and 34 St. Dizier St., Montreal, Eastern Agents.
HAMILTON, CANADA

EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

The Hamilton Cash Register

Is the National Cash Register with all the latest improvements up to date.

Registers of all kinds and makes, Autograph Registers, Cash Carriers, etc., bought, sold, exchanged and repaired.

THE

Hamilton is the Anti-Monopoly Register

UP-TO-DATE.

BUILT ON HONOR. SOLD ON PRINCIPLE.

And backed by a guarantee that means something. Thousands of references by best known merchants in Canada.

Let us give you an exhibition of the Hamilton before you place your order.

All the latest novelties in store fixtures.



HAMILTON BRASS MFG. CO.

HAMILTON, ONT.

Limited

TORONTO OFFICE - 82 King Street West
MONTREAL OFFICE - 1782 Notre Dame Street
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LUXFER PRISMS

Placed in windows echo the outside brightness to the very rear of your warehouse.

"Investment, not speculation," say our thousand odd patrons.



EATON'S—WITH PRISMS



EATON'S—WITHOUT PRISMS

Your next door neighbor knows what it will cost to light his store; why don't you also?

Write for Descriptive Book.

The Luxfer Prism Company

Limited

58 Yonge St., Toronto.

IT PAYS TO BUY
THE BEST.



This Trade Mark is
on every Tag.

Plymouth Twine

has qualities peculiar to itself, which cause it to work perfectly where other brands fail.

The twine that gives the best value is the kind prudent farmers buy.

DISTRIBUTERS, PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.

HEADQUARTERS.

Sanderson Percy & Co.

FINE COLORS, WINDOW GLASS, ETC.

- - - - TORONTO - - - -

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

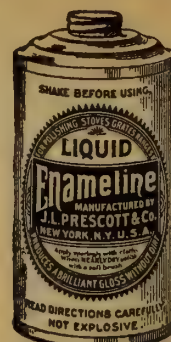
The Modern **STOVE POLISH**



CAKE.



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

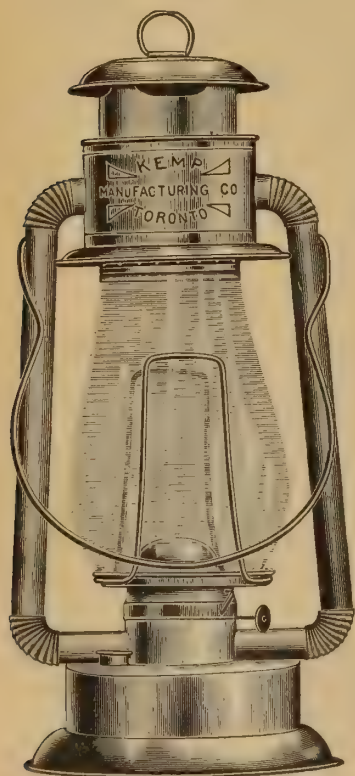


Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

10-12 Vine Street
Clerkenwell,

LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S COLD BLAST LANTERN

The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



Vol. XI.

MONTREAL AND TORONTO, MAY 20, 1899.

No. 20

President, JOHN BAYNE MacLEAN, Montreal.
Treasurer, HUGH C. MacLEAN, Toronto.

THE MacLEAN PUBLISHING CO. Limited.

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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TORONTO - - - - - 26 Front Street West, Telephone 2148.
LONDON, ENG. - - - 109 Fleet Street, E.C., J. M. McKim.
MANCHESTER, ENG. - - - 18 St Ann Street, H. S. Ashburner.
NEW YORK - - - - - 14 Irving Place, M. J. Henry.
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ST. JOHN, N. B. - - - No. 3 Market Wharf, J. Hunter White.

Subscription Canada, \$2.00
Published every Saturday.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

BRISTOL BUSINESS MEN COMING TO CANADA.

A NUMBER of Bristol, England, business men sailed on Monday for Canada. The extension of trade between Canada and that port is the object of their visit.

Mr. H. Spear, secretary of the Bristol Incorporated Chamber of Commerce and Shipping Guildhall, Bristol, has kindly forwarded to **HARDWARE AND METAL** the names of the gentlemen composing the delegation, as well as the different interests they represent. They are as follows:

Representatives of the Bristol Channel Corn Trade Association: Messrs. W. H. K. Watt, of Watt & James; Henry Hosegood, of Stoate, Hosegood & Co.; Harold James, of Arthur James & Co.; Charles

Priday, of Priday, Metford & Co.; T. W. Hibbard, of James Reynolds & Co.

Bristol Provision Merchants' Association: George Bradbeer, of Bradbeer, Brynes & Co.; Hedley Stevens; James Keniston, of Keniston Bros.

Bristol Cabinet Manufacturers' Association: Henry Hayes, of Grace & Hayes, and possibly Mr. Holman, a son of the president of the Chamber of Commerce.

We are also in receipt of a letter from Grace & Hayes, whose Mr. Hayes is named in the above list. They are particularly desirous of opening up a connection with lumber mills that do business in hardwoods, also those that would supply first hand specifications of lumber cut and planed to size and turners' mouldings, etc., for cabinet manufacturers' requirements, etc. "Could you also inform us," they write, "whether there are manufacturers of ready-made furniture of all classes who would be likely to entertain an export business?"

Mr. Hayes may be addressed, care of **HARDWARE AND METAL**.

Increased interest in trade between Bristol and Canada has been taken of late, and the visit of the gentlemen in question will naturally tend to still further augment it.

ADVANCES IN NAILS.

There has been several advances since last report in miscellaneous descriptions of nails. For instance, the discount on boot nails has been reduced from 40 to 33½ per cent.; that on galvanized roofing nails from 25 to 15 per cent., and on copper nails from 45 to 40 and 5 per cent. Escutcheon pins are now sold 55 instead of 60 per cent. off list, and coopers' and poultry netting staples 10 instead of 15 per cent. off the list prices.

WHITE LEAD ADVANCED.

The makers of white lead this week decided upon a general advance of 12½c. in the scale of prices governing the jobbing sale of white lead, as follows:

	New List.	Old List.
Government standard.....	\$6 00	\$5 87½
No. 1	5 62½	5 50
No. 2	5 25	5 12½
No. 3	4 87½	4 75

These prices are per 100 lb. in iron, tins, and wood, all size packages.

Extras are as follows:

12½ lb.	7 to 10 lb	3 to 5 lb.	1 to 2 lb.	Pkgs.
½c.	1c.	2c.	2½c.	Extra.

Prices are f.o.b. Montreal and Ottawa; f.o.b. Hamilton, Toronto, London, Windsor, St. John, and Halifax, 12½c. per 100 lb. extra.

Trusts are formed because people cannot trust each other.

COIL CHAIN DEARER IN MONTREAL

As a result of increased cost at primary points, the Montreal jobbing houses, this week, made a material advance in their scale of prices on coil chain. The changes in detail are as follows:

	New List.	Old List.	Advance.
	\$	\$	c.
No. 6	10½	9¾	¾
No. 5	9	8¾	¾
No. 4	8	7½	½
No. 3	7	6½	½
¼ inch.....	5 75	5 50	25
5-16 inch.....	4 50	4 25	25
¾ inch.....	4 00	3 85	15
7-16 inch.....	3 85	3 70	15
½ inch.....	3 75	3 55	20
9-16 inch.....	3 70	3 40	30
¾ inch.....	3 60	3 25	35
¾ inch.....	3 40	3 15	25
¾ and 1 inch.....	3 30	3 00	30

The glue trust, which is being formed in the United States, ought to be able to hold together.

NO DOMINION INSOLVENCY LAW.

AND so another session of the Dominion Parliament is to pass without an insolvency law being placed upon the statute book.

Not even a bill is to be introduced. Mr. Fortin had given notice of his intention to introduce the bill which was before the House last session, but Thursday morning's papers announced that he would not do so.

To allow another session of the House to pass without enacting an insolvency law is little short of disgraceful.

Mr. Fortin's bill has received the hearty approval of the leading boards of trade in the country, and also of the Dominion Travelers' Association. The amendments which have been made in the bill since last session have even mollified the bankers. But still there is to be no law.

THE CANADIAN GROCER does not blame Mr. Fortin. He has shown a great deal of persistence in regard to the matter.

The onus for the failure of the bill to come before the House rests upon the Government. This is obvious from a statement made in the House on Tuesday by the Premier. Here are his exact words :

I have been in communication with Mr. Fortin, who has a bill on the order paper respecting insolvency. I understand that legislation has been introduced into several of the Provinces, which, up to this time, have had no law respecting insolvency or respecting the distribution of assets of insolvent estates. I am in conference with Mr. Fortin, and if, as I understand, such legislation has been passed in the Provinces of Nova Scotia and New Brunswick, the Government will not favor any legislation on the subject of insolvency this session.

It was a question from Mr. E. F. Clarke that drew out this statement.

As a statement it is decidedly unsatisfactory. The fact of the matter is the Government is afraid of the question. It knows just as well as it does that two and two make four that an insolvency law is needed, and to "understand that legislation has been introduced into several of the Provinces" is merely trying to crawl through a knothole to evade performing a duty.

Nova Scotia did away with the iniquitous preferences over a year ago and New Brunswick, as the Premier says, has made some improvement. But what about the condition of the insolvency law in the other Provinces? What about Ontario, for instance? The Legislature of that Province

seems to be about as much afraid of the insolvency question as a burned child is of fire. It has experimented in the past, and the courts have clipped its wings. Of late years it has not evinced any disposition to experiment with the "pesky thing."

The written constitution of the country delegates to the Parliament of the Dominion the duty of dealing with insolvency, and this duty it should manfully take up. Until it is taken up we cannot expect a uniform law which is the desideratum the business men of this country are seeking. And to expect this uniformity by the enactments of the seven Provinces and the one Territory comprising the Dominion of Canada, is as unreasonable as it would be to expect an equal number of men to have uniformity of opinions.

Then, there is a duty we owe to the business men of Great Britain, with whom we profess to be so anxious to trade. They have again and again pointed out the disadvantages under which they labor in doing business with Canada, owing to the defective character of the insolvency laws of the country. This is again and again being reiterated by the newspapers in Great Britain.

When the Government inaugurated the Preferential Tariff in favor of British goods it popularized itself with the great majority of the business people in both Canada and the United Kingdom, but the absence of effective insolvency laws nullifies to a great extent the advantages accorded by the tariff.

In the matter of tariff we give British goods a preference, but in the matter of insolvency law we practically discriminate against British goods.

TORONTO'S BUILDING ACTIVITY.

In March and April building permits were granted in Toronto for \$402,160 worth of buildings, as compared with \$334,940 last year, \$175,445 in 1897, and \$114,325 in 1896. During the week ending May 18 permits aggregating \$164,720 were issued, which makes a record week. The activity this represents may be gauged by the fact that the total value of permits issued in 1896 was less than four times, and that of 1897

less than six times, the value of those issued during this one week.

The great bulk of the buildings for the erection of which permits have been taken are for factories, and for private residences costing from \$2,500 to over \$7,500.

The activity of building operations should help to make this summer's business a most satisfactory one to the merchants in the "Queen City."

ADVANCE IN U.S. GALVANIZED IRON

THE market for galvanized iron of United States manufacture is stronger,

On May 12 importers in Canada were served with new prices by the manufacturers across the border, but on Wednesday these were withdrawn. Up to the time of going to press no new figures have been received.

Our quotations on galvanized iron of United States manufacture are 10c. per 100 lb. higher, the figures for case lots now being as follows: 16 gauge, \$3.85; 18 to 24 ditto, \$4; 26 ditto, \$4.25; 28 ditto, \$4.60.

Notwithstanding this advance, the jobbing price of United States galvanized iron in Canada is considerably below what it would cost to import fresh lots at, even based upon the manufacturers' quotations of May 12. Based upon the figures of May 12, it would cost \$5.10 per 100 lb. to import No. 28 gauge.

The high figure now ruling for United States galvanized iron practically prohibits importation from that country at the moment, galvanized iron of English make being much cheaper.

GREEN WIRE CLOTH HIGHER.

A scarcity of green wire cloth still exists, on account of the keenness of the demand and the difficulty of securing raw material.

As a result of this state of affairs, the price has been advanced 10c., the quotation per 100 square feet now being \$1.30.

In the United States, the conditions are much the same as they are in Canada. In spite of this, however, green wire cloth is 20c. cheaper in Canada than it is in the United States, the ruling quotation over there being \$1.50.

A year ago, green wire cloth was quoted at \$1.20 in Toronto.

DEATH OF WILLIAM CANE.

WILLIAM CANE, president of The Wm. Cane & Sons Manufacturing Co., Limited, died at his home in Newmarket, Ont., on Wednesday, after a lingering illness.

Mr. Cane was 77 years of age, nearly 60 of which he was in business for himself. The death of his father, who had immigrated from Antrim, Ireland, threw him on his own resources, while he was yet in his teens. In 1840 he located in Queensville, seven miles from Newmarket, and commenced to make pumps, wagons and other woodwork. He also purchased a sawmill near Queensville. In 1864 he built another sawmill about three miles from Queensville. At this place, which was soon known as Cane's Mills, he soon had saw and planing mills, a lumber yard and a number of smaller industries. Twice he was burned out, but he rebuilt each time.

In 1875 his business was removed to Newmarket, Ont. Here he erected a saw mill, planing mill, and purchased the Sykes Foundry and Engine Works. The foundry and engine works were burned the same year. In 1885 fire again visited him and burned down his works, which then included a large pail and woodenware factory, two large dry kilns, a storehouse, and an extensive lumber yard. In this year the present Wm. Cane & Sons Manufacturing Co., Limited, was formed, with Mr. Cane as president. A temporary factory was built and used during the season of 1885. The company then built the present large brick structure, which is really three factories, separated by solid brick fire walls. They also put in a splendid system of waterworks, built a firehall, purchased a hose reel and full equipment for fighting fire. In 1887 the factory again caught fire, when the second storey of the pail factory was burned. Had it not been for their private fire department, there is no doubt the entire place would again have been destroyed. The company's business, which is steadily growing, is now managed by Mr. Cane's sons.

In public life, as well as in business life, Mr. Cane has ever taken a prominent place, having held almost every position of municipal honor. He was mayor of Newmarket

for nine years, and his son, Wm. Cane, jr., is the present mayor of the town.

His life was characterized by Christian benevolence and honesty, as well as business enterprise and acumen.

MR. ASHDOWN FOR THE SENATE.

A press despatch from Winnipeg says it is rumored that Mr. J. H. Ashdown, of that city, is to be appointed to the Dominion Senate in the place of the late Senator Boulton.

It is to be hoped the rumor will turn out to be a reality.

Mr. Ashdown's business qualities are his recommendations.

He went to the West some years ago from Toronto, and has built up in Winnipeg one of the most successful wholesale hardware houses in the country.

The qualities which enabled him to make his business successful are qualities which will enrich the Senate.

The Government has, on the whole, been wise in its appointments to the Senate lately, most of those appointed being men who had earned for themselves reputations as capable and successful business men. By appointing Mr. Ashdown it will further exhibit its wisdom.

THE GUELPH ROLLING MILL TO START UP.

After lying idle for two or three years, the rolling mill at Guelph is again to be operated. The London Bolt and Hinge Works, of London, Ont., having secured possession of the plant and buildings.

The new proprietors will continue their own factory at London, running the rolling mill at Guelph at the same time. They expect to be the largest consumers of their own iron.

The advent of another rolling mill in Canada will not be unwelcome to a good many manufacturers at the moment, for the three or four now in operation in the country are unable to supply the demand, importation having to be made from the United States. And still there is a deficiency, for the mills across the border are also experiencing difficulty in filling orders.

Bar iron from the Guelph rolling mill will, probably, be on the market in a few weeks.

A TEST OF AXES AND SAWS.

A UNIQUE competition is to be held in Ulverston, a small town in Tasmania, under the auspices of the United Australian Axemen's Association. For many years past trials of skill have been a feature of the annual gathering of the expert sawyers and axemen of Australia.

British makers have for some time complained of the preference shown for United States saws and axes, so it has been decided, at the gathering this year, to hold a contest open to all British and American, and possibly Swedish and German saws and axes, and to all Australasian sawyers and axemen.

The committee in charge of the trial will include Hon. Sir Edward Braddon, Prime Minister of Tasmania, and other gentlemen of standing, so the trials assume an almost international importance.

The tests of the saws and axes will be made by teams of ten men each. Leaders will pick their teams from men on the ground; lots will be drawn for the choice of tools and the men who get through their logs first will be considered winners. Already, \$250 has been offered as prize money, and the Tasmanian Government has been asked to contribute another \$250.

Championship gold medals will be given to the manufacturers whose tools are winners. Besides the medals for saws and axes, gold medals will be given for the best assortment of files and axehandles.

The contest will take place on November 30. Entries of tools must be made to the Australasian Ironmonger not later than next month. Why should not Canadian manufacturers of saws and axes take a hand in the contest? There is already some export trade done with other countries, and why not with Tasmania?

ADVANCE IN BLACK SHEETS.

Jobbers in Toronto, on May 12, received new prices on black iron sheets from the manufacturers in the United States. On Wednesday they were notified of the withdrawal of these, but since then new and higher quotations have been received. No change has yet been made in jobbers' quotations.

Not many months ago the cost of black iron sheets, of United States make, was about \$1 per 100 lb. lower than at present.

HOW WHITE LEAD IS MADE.

VERY few people know how white lead—the base of so many paints—is made, and even those who sell it ought to know more about it than they do, remarks an exchange. Now and then one may find a person who will tell you that the same lead which is moulded into bullets is the white lead seen in the paint pots, but an inquirer will ask a great many people before he finds one to explain the process of manufacture. Here, then, are a few notes which may be of interest to those who are expected to know. Iron, it is pretty generally known, is melted into what are called “pigs” for shipment and for convenient use. It is the same with lead, only the pigs are not as large and heavy. The first step in the manufacture is to corrode the lead. We will take what is called the “old Dutch process,” because that makes the best article. The “pigs” are tossed into a melting furnace, and when reduced to a liquid state the metal is drawn off into moulds, which are called “buckle moulds.” The lead thus moulded is called a “buckle,” being a little round cake nearly as large as a saucer, but not so thick, and perforated in many places. These “buckles” are carried by an endless belt and dropped into earthen jars of various sizes. At the bottom of each jar is a small quantity of acetic acid.

When a jar is full of “buckles,” which have been dropped in without regard to order, it is removed to the corroding-house. Here the jars are placed in a row, covered by boards, the boards are covered by two inches of tanbark, and then another course of jars is added until all the room is taken up. There is nothing more to do for ninety days except to wait. It is not the acid direct, but its fumes, and the perforations which permit the fumes to get to all parts of the little cake. At the end of ninety days the lead should be corroded. The “buckles” are then bleached out until they look like biscuits and will crumble to pieces at the touch. The same acid which has befriended the maker in the corrosion is now his worst enemy, and must be got rid of.

Many people have rubbed their hands along the boards of a building and found them smeared with a white powder. The house was painted with lead from which the acetic acid was not thoroughly washed out, and the paint “killed” and powdered up. The jars are taken to the washing-troughs and their contents emptied in, and the water is then let in and the bath is sluiced until we have a mixture the color of milk and scarcely heavier. After a deal of washing the water is drawn off, and the lead is found at the bottom of the troughs. If the acid has been taken out it is shoveled into jars again, and

then carried into a hot-air room and left for the water to evaporate. When this has been accomplished, the contents of the jars are emptied on copper drying-pans heated by steam. The stuff now looks like ice-cream, but soon dries until it is as fine and white as flour.

To make paint, it simply has to be ground in oil. To prove that this white paint was once metal, a simple experiment may be made. Take a piece of charcoal, dig out a small hole in the centre and fill the cavity with paint. Now light the charcoal and put the blowpipe at work, and what is the result? A ragged button of lead. Acid made it paint—fire burns it back to its original state. The lead corroder ships to the paint factories by the barrel. At the factories, the dry stuff is poured into paint mills, oil added, and the stuff is ground through three different mills before it comes out as it is seen in the paint cans. If the paintman is making pure lead he adds nothing. If he so desires, the lead is adulterated while grinding. There is a species of quartz rock called barytes. When this is pulverized it closely resembles lead, and is largely used to adulterate it.

MAKE A NEW RULE.

There is one skimpy, parsimonious habit which many merchants have of making clerks take their vacations at their own expense. Now, this method of procedure is wrong, because in many instances it prevents most of the clerks from taking advantage of the opportunity to have a vacation during the quieter season, because they cannot afford to lose their salary during that period, nor can the majority of them save up enough to meet the expenses of a trip; for they generally have families or relatives to support or assist in supporting. It is said, however, that many establishments are beginning to display more generosity in this particular than they did in the past and are granting employes vacations of one and two weeks at full salaries. There is no denying the benefit which the clerk derives from this change in the monotonous rounds of business. He comes back in good spirits, with mind and body refreshed and ready to start in with a vim. Every merchant knows what it is, from past experience, to be tied down to a dull routine without hope of variety, and how depressed in spirits he grew after this condition of affairs had continued for a long while; therefore, let him put him put himself in the clerk's place, metaphorically speaking, for a time, enter into their feelings and give them the needed change and rest with full salary.—*Stoves and Hardware Reporter.*

THE PROPOSED GAS FIXTURE COMBINATION.

The gas and electric light fixture combination, which has been in hand for the past four months, is said by Metal Worker to be nearing completion. The promoters announce that the future of the scheme will be definitely decided within a very few days, and intimate a strong probability that it will go through. Options are said to have been secured on the plants of the following concerns: The Mitchell-Vance Co., Cassidy & Sons Mfg. Co., L. Plaut & Co., Archer & Pancoast Co., W. C. Vosburgh Mfg. Co., J. B. McCoy & Son, Oxley & Enos Mfg. Co., New York and Brooklyn; Horn & Brennen Mfg. Co., Thackara Mfg. Co., and The Gibson Gas Fixture Co., of Philadelphia; Cleveland Gas Fixture Co., Cleveland; D. J. Braun Mfg. Co. and W. S. Edwards & Co., Chicago, and Thos. Day & Co., Limited, San Francisco.

NEW IDEAS.

A plant support for flowers, especially potted plants, was patented January 25, by Peter Dolph, of Marquette, Mich. Perforated spring ears are attachable to the sides of the pot, and into the perforations are inserted the stems of the wire or slat supports.

A machine that weaves a continuous wire fence as it moves alongside is the invention of John W. Allen, of Sipe Springs, Texas. The value of this invention will be appreciated in sections of the country where the fencing of large tracts of land is an important element. Patented January 25.

A grain-shocking machine, in which the sheaves are received as cut into a tilting trough or frame which is semicircular in shape, so that the bundles are held compactly in the form of a shock. When a sufficient number of sheaves have accumulated, the frame is tilted outward, depositing the entire shock erect and in regular rows. Patented January 25, by George S. Bingham, Hamilton, Can.

HARDWARE AND METAL is indebted to Marion & Marion, solicitors of patents and experts, New York Life building, Montreal, for the above information.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

COMBINATIONS IN ENGLAND.

THERE are rumors of still another trade combination—this time in mangles and wringers. It is reported that a number of the leading makers have been canvassed, and that most of that number have expressed their willingness to consider the matter. It is further stated that the movement has received very encouraging support in Keighley, the stronghold of the domestic machinery trade. The movement is, I think, to be regretted, for these monopolies are scarcely a healthy sign of the times. At the same time one cannot help feeling sorry for the manufacturers, whose profits, it is said, have lately been next to nothing. No one wishes them to run their works for the pleasure of running them, but at the same time if the prices of domestic machinery, as a result of the "combine," are put up very much Keighley will be inviting American competition. Curiously enough, a few days ago we had a gentleman over here from the "other side" lecturing us on the subject. In a paper on "Trusts," which he read before the British Economic Association, Professor Ashley pointed out that the object of trusts was to secure the largest net returns, and they saw that a large sale at a low price might pay them better than a small sale at a higher price. So far as labor was concerned, the formation of a combination undoubtedly put capital in a position of advantage. Some of the great monopolists had been very successful in freeing themselves from trade-union pressure. Combinations, on the other hand, he contended, had increased the stability of industry, continuity of employment, and steadiness in the rate of remuneration. In England, formal combinations are rare, and the ill-success of the Salt Union is a standing example to show that they are not likely to succeed; but informal agreements and understandings on a smaller scale are by no means unknown. Further, an actual amalgamation, like that of the Coats Company in the thread manufacture, or of the Armstrong and Whitworth engineering businesses, may have much the same results as a combination.—Ironmongery.

AT CRANBROOK, B. C.

A little over a year ago, Cranbrook, B. C., only had about 30 buildings; to-day it has over 300.

G. H. Miner was not only the first to start in the hardware business, but he was about the first to build a store in Cranbrook.

Mr. Miner's business has grown so in 15 months that he has been forced to erect a much larger building. The premises include three departments, namely, store, workshop, and warehouse. The store is

25x50 ft, workshop 25x15, and the warehouse 25x35 ft. The building will be completed this month. Mr. Miner will be the first to have a plate glass front in Cranbrook.

THE POWER OF ADVERTISING.

"Properly applied," observed the old advertising man, "advertising is a force which has no peer in strength over the public mind. It is the greatest scientific

triumph of the century. It suggests what we shall eat, wherewith we shall be clothed, and even what we shall pay for it. It creates a wish for things which the public never knew or imagined it wanted. It offers to supply a demand before the demand is made, while, previous to the days of modern advertising methods, the supply only followed a manifestation of the desire for its presence."—Profitable Advertising.

Good Firearms and Good Bicycles

If you are looking for either or both, you will do well to write us for prices, terms, etc.

Iver Johnson Firearms and Bicycles

are honest, well-made goods. They will give perfect satisfaction. One feature of the Iver Johnson gun or revolver is, that it is

ABSOLUTELY SAFE.

This feature also applies to our bicycles. They are also safe, owing to their drop-forged connections, careful workmanship, and good material.

Descriptive Catalogue Free.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

Gilbertson's Galvanized Sheets

PATENT

COMET
BRAND

FLATTENED

are suitable for all kinds of Galvanized work demanding uniform quality; being made of superior Siemens Steel, they will double seam either way of grain, are smooth, soft, and well galvanized, every sheet being carefully selected; weight and count of sheets per case fully equal to the best known brands imported, and cost less.

GILBERTSON'S are the only galvanizers who not only roll all their Steel Sheets, but manufacture all their own Steel in their own Steel Works, thus enabling them to put a soft and regular quality of steel into their sheets, which is impossible for galvanizers who buy their steel in the open market.

GILBERTSON'S CORRUGATED GALVANIZED SHEETS—all sizes.
FLAT GALVANIZED SHEETS (not fluxed) for corrugating purposes.

"GILBERTSON'S" SIEMENS-MARTIN TINPLATES

are soft, extra well coated, noted for deep stamping qualities, and for canners of fruits, meats and fish have no equals. Cost no more than brands not nearly as well coated, or of equal quality.

BRANDS: "Gilbertson's," "Parsons," "Pontardawe,"
"Lincoln," "Comet," "Regina," "Gwyned."

GILBERTSON'S TERNEPLATES, "Regina" brand.

IMITATION RUSSIA SHEETS—will not crack or scale. Pickled, cold rolled and close annealed.

SIEMENS-MARTIN STEEL SHEETS, close annealed, close annealed and cold rolled (flat and free from buckles), also pickled.

BLACK CEILING PLATES, "Comet" brand, Pickled, cold rolled and close annealed.

BLACK TAGGER PLATES. Pickled and close annealed,

Supplies carried by all wholesale jobbers. In ordering please mention brands.

ALEXANDER GIBB

Agent—

... 22 St. John St., MONTREAL

H. S. HOWLAND, SONS & CO.

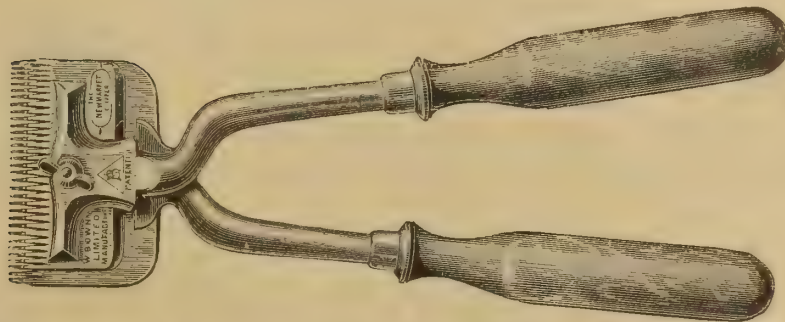
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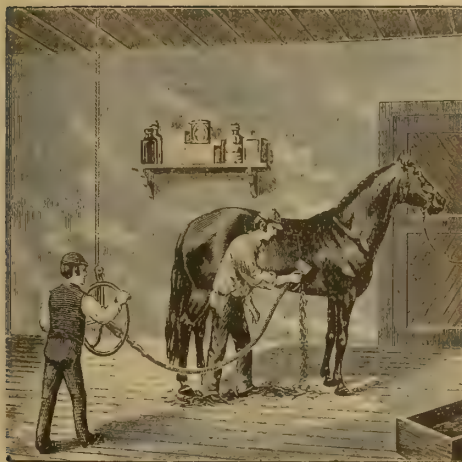
HORSE CLIPPERS



Boker's "Dandy"	-	-	-	\$12.95 doz.
" " "Keen Cut"	-	-	-	13.80 "
" " "Perfection"	-	-	-	17.20 "
" " "Ball-Bearing"	-	-	-	20.40 "



"Newmarket" Clippers - \$21.00 doz.



CHICAGO FLEXIBLE SHAFT HORSE

\$13.35 each. **CLIPPERS.**

Also Horse Singers.

H. S. Howland, Sons & Co., Toronto.

GRAHAM WIRE AND CUT NAILS ARE THE BEST.

JUST ARRIVED

LIBERAL TRADE DISCOUNT

TRADE WITH CARPENTERS AND BUILDERS.

THE subject of trade with builders and contractors has lately been up for discussion. We live in a State void of lien laws that protect in such cases. We also have with us very many of the unreliable sort in the class of builder and contractor; the kind who, if they "clear" on their job, may pay, if they lose on it, they never pay.

OUR LAWS

should most certainly have attention through the State hardware associations, and more directly through solicitation of those who frame them. There are in some States laws for protection that are of real value; in our own, as stated, we are utterly without them. More losses occur from this one source of trade than any of us are willing to own to, and more possibly than from any other one source.

One of your correspondents says there are some reliable ones among them, which is true, but you can count them on your fingers in any city of from 10,000 to 50,000.

It is the one business that does not seem to require capital to found a line of credit.

THE ANXIOUS SEAT FOR TRADE

causes much of this. The contractor comes to you from another house where you know his credit has been exhausted, and where you know he is still owing. He pays you cash for the first few jobs, cash that should have gone to the other man. You finally feel that you can watch him and get out of him what the competitor did not, and begin to give him credit—only until the job is through with. It is the same old story, he finally and invariably gets you just as he does everybody else in the town.

CREDIT TO UNWORTHY MEN,

men who are positively dishonest, is allowed. The trouble starts with the architect in asking such men to figure on the job, and it does seem that no man who takes pride in his profession would be guilty of it, yet such is the case in every city we know. So long as we allow credit to men who make their boast that the job was taken for less than it was worth, just so long will we keep on charging their account balances each year to profit and loss, or to a hopeless suspense account.

THE SAW AND HATCHET MAN

is put on a plane with the man who is an expert, who pays his bills, who has done business with you for very many years in a reputable way, and whom you are in honor bound to protect as against the fly-by-night contractor and builder. Doesn't it make you ache to go over these balances left by such men some night, and figure out what a

hole it has made in your profits? Think of it, \$50 is 10 per cent. of profit, covering the entire sales to this worthless party for four or five good residences put up.

OUR EXPERIENCE

for a number of years was just the same as that of a great many others. We thought we could collect where our competitors could not, and we are still collecting them. In every case we were caught at one time or another. We are afraid to say what it amounted to some ten years ago. We have this consolation—we quit it, we wiped all such men from our books, and so long as we have control of them they shall not be dishonored with this class of accounts.

WE MADE OUR CURE

in two ways—one was to forever and always and flatly refuse the unworthy contractor credit. The other and better way has been to go to the man owning the building. We began this some years ago, and have found it full of satisfaction in every possible way. It leaves no hard feeling anywhere, it gives the owner much better hardware, glass, etc., it saves the contractor time in the selection of it, and ourselves time in helping to cheapen it, which he invariably wants to do unless specified by number, finish, etc., in closest detail.

THROUGH THE ARCHITECTS

the larger part of it has been worked. We suggested to them that by leaving these items to the owners it would give them better and more satisfactory trimmings, and would relieve them of the necessity of specifying just what should go in. They fell in with it at once, and, for a number of years, while furnishing by far the larger part of the better class of houses, we have not lost a dollar, and we have not a worthless contractor on our books. The contractor is glad to have it off his hands, the owner is more than glad to make his own selection, and, all in all, we believe it comes near the solution of how to avoid the irresponsible carpenter, builder and contractor.—H. C. W. in Iron Age.

PERSONAL MENTION.


Mr. and Mrs. William H. Evans, Toronto, were registered at the Palace Hotel, San Francisco, California, May 17, 1899.

Mr. Robert Munro, managing director of The Canada Paint Company, was booked at the Hotel Vancouver, Vancouver, B.C., May 12, 1899.

Work has been commenced on the construction of the large rolling mill which is to be erected in Belleville by The Abbott-Mitchell Iron and Steel Co.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.



PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
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COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS.

Pullman Sash Balance Co.
Makers of the
"Pullman" Hardware Specialties
Main Office and Works,
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Size, 3/4-inch.
Cheapest IN THE WORLD.
J. M. LITCHFIELD
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The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited



Ours is



The "Standard"

... Wickless Blue Flame Stove.



"Standard" because all others are claimed to be **"JUST AS GOOD."**

It has "glass sight feed," showing flow of oil and insuring rapid and easy regulation of valve.

It has measuring cup for lighting, giving quick operation and preventing overflow of oil.

It has no wicks to keep clean, no joints to leak, no small parts to break, nor fine tubes to clog.

Made in eight styles and sizes, all mounted on steel encased frames, and for durability, beauty and convenience is **unequalled**.

For catalogue and prices, write us.

THE THOS. DAVIDSON MFG. CO., Limited, MONTREAL, P.Q.

Tinplates.



From Stock
or for Importation.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West TORONTO.

THE SUCCESSFUL BUSINESS MAN.

IN business or out have your reputation spotless, your character clean. Commercial agencies record every movement made from the time one enters business. If not fair and upright in all your dealings, you will be greatly hampered; if honest and trustworthy, your credit may in time be unlimited. Creditors will have nothing to do with a person tricky and unscrupulous; merchants and bankers extend credit according to their confidence in one, therefore, pay bills promptly, the delay of a day may weaken your credit.

Endeavor to be up-to-date, taking advantage of the latest and most improved inventions, so that you can present your affairs in the most attractive manner, and, whether in business or pleasure, work with self as a centre, placing all the force of your physical and mental powers in that direction.

Select a good location with a first-class exterior, having the interior nicely furnished and up-to-date; everything free from dust, salesmen obliging and patient; back of this entire combination use the most potent advertising medium.

Your private office must be neat and clean, for a caller is impressed with an office denoting system and order. Papers and other miscellaneous matter should never lie about as if they had accidentally blown in and were just as liable to blow out. Centuries ago such methods were practised, but in those days the fields of enterprise were restrained and restricted, and merchants kept their own books, wrote with a quill, and let the ink dry of its own accord. In those days business men were mere automatons, far from a brain-progressive class, and merely conformed to the habits of their ancestors.

Welcome honest competition, meet it, battle with it, and lead it. Patronage hangs on a thread, so weave it as strong as a cable by honest trading. The old proverb says: "Sell at small profit, and you sell quickly; he who quickly sells, sells plenty; he who plenty at small profit quickly sells, earns little on plenty, but plenty on much."

If every article bears the mark of honest value, your establishment will, in time, be the rendezvous for the purchasing public. We are all dependent on each other; the merchant on the people, and the people equally on the merchant.

Never be so fond of your store, methods, and ideas that you will not give the public credit for knowing its wants, or your patrons may go you one better. Far prefer to hold your finger on the pulse of trade, and shape your course accordingly.

Business at times may be subject to disorder somewhat similar to the nature of

man. In such cases, study it as a physician studies and diagnoses the complaint of his patient. If the condition is dull and out of the ordinary, depend upon it, there is a cause producing the effect, and the quicker you set about removing it the better. If you lack the ability to regulate the pulse of business to its normal standard, engage the services of those capable.

Convince the public business is thriving. Be jovial in spirits, for bad news spreads quickly. If there is an opportunity to boom business, do so; don't pull a long face, but smile, hold up your head, work with both hands, and look pleasant.

Attend strictly to business during business hours. Cultivate the friendship of the public. Without identifying yourself with politics, watch its course with circumspection, for the various changes in national affairs may have a tendency to affect your line.

A business man requires health and exercise, and it is a physical and mental necessity for him to spend a part of the time out of doors.

The life of many a business man attests how thoroughly, although unconsciously, one can become a drudge from long-continued habit, getting so habituated to work that it grows a part of his being, and he imagines the work can not go on without him; it is, therefore, necessary to take a week's vacation at least once a year, and apply it to an outing in the country, forgetting business cares during that period.

A close examination of every class of society convinces us that in proportion as the intellect is highly strained the body suffers. The wear and tear of the living mental machine, resulting from over-strenuous labor or exertion of the faculties, destroys the physical fabric.—Benjamin Wood, in Michigan Tradesman.

TRAVELERS AND SAMPLES.

As illustrating what has been said lately by "Rover" about the inaptitude of a certain class of travelers, the following case is, I think, very much to the point: The representative of an important firm manufacturing illuminating goods was expatiating to an ironmonger upon the merits of a new invention which his principals had brought out. "Have you a sample with you?" asked the dealer. "No, I am sorry to say I have not." "But you have tried the article personally, of course, and have found that it will do all you claim?" "No, I cannot really say that I have even seen the invention myself, but So-and-So" (naming an ironmonger in the same town) "has had one, and tells me it is all right." "Ah," replied the ironmonger, "I prefer not to buy

on the strength of a competitor's vague assurances"; and the interview came to an end, with nothing to show on either side for the time thus fruitlessly taken up.—Ironmonger.

TESTS FOR NICKEL-PLATING.

As it is impossible to tell by the eye what thickness of nickel the plater has put on to a piece of work, it is often desirable to be able to test the plating in some other way, says an exchange. The most trustworthy test we know of is to apply nitric acid, and observe how long it takes to eat through to the steel. Good plating should take not less than forty seconds, while with very poor plating the acid will go through almost immediately; but it is advisable for the experimenter to take two pieces of work, one known to be well plated and the other poorly plated, and compare for himself the time which the acid takes to eat through.

Of course, the acid test is not available in the case of a single piece of work, but where a large amount of plating is being done, and the spoiling of one or two small samples is a matter of comparatively little importance, it is a very useful test. The method, however, most usually adopted for judging plating is simply to rub it up bright and breathe on it, and see how long the moisture remains visible. The longer it lingers on the surface of the metal, the better the plating is considered to be. This test, although merely an empirical one, has, at all events, the merit of simplicity, and it does not injure the work. One other plan is to weigh the article before and after plating, but, of course, it is necessary that the weight should be taken after polishing, when the article is ready for the bath, and the weighing must be very accurately done, or the test will only be misleading.

TRADING STAMPS CONDEMNED.

A meeting of the grocers of St. John, N.B., was held on the 10th inst. There were present: C. E. Macmichael, L. A. Hopper, Geo. W. Mullin, T. J. McPherson, Geo. Colwell, O. B. Akerley, F. L. Potts, Horace Hoyt, R. Stephenson, F. E. Williams, Ira B. Keirstead, James Duke, R. A. Moffatt, A. D. Branscombe, W. Estabrooks, E. Finnegan, T. A. Dunlap, E. M. Sprague, James Sinclair, and James Collins. Mr. Macmichael was made chairman, Mr. Hopper secretary, and Mr. Mullin treasurer.

There was a general expression of opinion relative to trading stamps, which were condemned in very strong terms by all present. Another meeting will be held next Tuesday evening, when it is expected a grocers' association will be formed.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

Time Saved is Money Saved.

Your Customers will Save Time by using

ARCADE FILES.

And we stand back of this statement with an offer to refund the money for any ARCADE FILES that do not cut faster and wear longer than any other make.



"See that key? It took me two hours to fit it with a — file. The same job I'm doing now in half an hour with an Arcade."

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President.

THE ARCADE FILE WORKS

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CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL May 19, 1899.
HARDWARE.

STRENGTH and an advancing tendency in values continues the dominant influence in the hardware situation, for, as will be noted in the following market reports, there have been several important advances in prices since last report. Business shows considerable activity also, the movement being well distributed throughout the entire list.

BARBED WIRE—Business is restricted by the fact that makers are behind in raw material. Price firm at \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—A fair trade is doing in this line, and prices hold steady of \$2.50 f.o.b.

FINE STEEL WIRE—Trading is moderate and values are firm, with discounts 25 per cent. off list.

GALVANIZED WIRE—The base price is stiff at \$2.80, and trading is light.

BRASS AND COPPER WIRE—Discounts unchanged, with trade small.

FENCE STAPLES—Unchanged at \$2.90 for

bright per keg of 100 lb., with galvanized \$3.50.

OTHER STAPLES—Cooper and poultry netting staples have been advanced 5 per cent., discounts now being 10 per cent. off list.

WIRE NAILS—The corporation contracts were awarded this week, but, aside from this, business has been of moderate volume. Prices are unchanged at \$2.50.

CUT NAILS—A moderate volume of trade is noted and prices are unchanged at \$2.05 f.o.b., the usual delivery points.

BOAT NAILS—There has been an advance of about 6 per cent. in boat nails, the new discount being 33½ per cent.

GALVANIZED ROOFING NAILS—These are 10c. per cwt. higher than they were last week at 8c., with discounts 15 as against 25 per cent.

HORSE NAILS—A quiet trade is noted with Standard 50, and Acadia 50 and 20 per cent.

HORSESHOES—There is only small movement in these. We quote: Iron shoes, light and medium pattern, No. 2 and larger \$3.40;

No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

TACKS—Fairly active and steady. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—Quiet. In dozens, 85 and 25 per cent.; and in bulk, 10 per cent. off list.

SCREWS—There is a good movement in these. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—The same can be said of this line. Discounts: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger,

Eavetroughs

26 or 28 GAUGE.

SPECIAL DISCOUNT for orders, if not less than 1,000 ft. at one time.



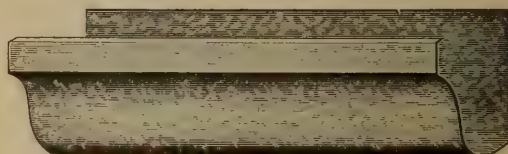
"HALF ROUND"—with round bead on outside.

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with round bead on outside (cannot freeze under bead).

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with square bead on inside.
Sizes: 8, 10, 12 and 15 in. girth.

Conductor Pipes

Galvanized

PLAIN OR CORRUGATED.

ELBOWS, SHOES, HOOKS, Etc., supplied, all kinds, for eavetroughing and conductor piping.

WE SHIP ORDERS QUICK.

The McClary Manufacturing Company

LONDON

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MONTREAL

WINNIPEG

VANCOUVER



There is good and bad galvanized iron. Apollo is good, all and always; there is no other.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
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In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Limited
Manufacturers of

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—In fair inquiry. Discount on black and tinned rivets, 55 per cent.; ditto burrs 50 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—The feeling in rope is very firm, and the values, though not quotably changed, have an upward tendency. We quote the base on manila, 11¼c.; sisal, 10¾c.; lath yarn, 9¾c.

SHOT—As last quoted: Ordinary, 6c., and chilled, 6½c.

CEMENT—There is an active business in cement. Prices rule stiff: Belgian, \$1.90 to \$2.10; English, \$2.30 to \$2.40, and German, \$2.45 to \$2.65 per cask ex wharf. Spot prices for prompt delivery are: English brands, \$2.35 to \$2.45; German, \$2.50 to \$2.60, and Belgian, \$1.90 to \$2.10 per cask, ex store.

FIREBRICKS—There is a fair trade in these. Prices are firm at \$17 to \$23 per 1,000, as to brand.

METALS.

The firm feeling in all leading lines of heavy iron and metals is fully maintained.

PIG IRON—Several extensive contracts for Hamilton pig iron have been closed this week on the basis of \$19 to \$20 as to quantity for No. 1, and \$18 to \$19 for No. 2.

BAR IRON—In good demand, and the mills are having difficulty in keeping up with their orders. We quote car lots \$1.70 and smaller quantities 5c. per 100 lb. advance.

HOOP IRON—Firm and unchanged, at \$2.65 to \$2.70 per 100 lb.

STEEL—The firm tendency continues, and spring and machinery steel are higher than they were. We quote: Sleighshoe and tire, \$2.45 to \$2.50; spring, \$2.65; machinery, \$2.90, and toe calk, \$2.90.

GALVANIZED IRON—There is a fair business doing in this line, and prices are stiff at \$4.75 for No. 28 "Queen's Head" and \$4.35 for "Comet."

INGOT COPPER—Steady at 19½ to 20c.

INGOT TIN—Has advanced 1c., and is stiff at 30c.

PIG LEAD—Firmly held at \$4.25 with a fair movement.

LEAD PIPE—Steady, at 7c. for ordinary, and 7½c. for composition waste, with 17½ per cent. discount.

IRON PIPE—There is an active business doing in iron pipe, and prices on several of the larger sizes are higher. We now quote: Black pipe, ½ and ¾-inch, \$2.98; 1-inch, \$2.95; 1¼-inch, \$3.55; 1½-inch, \$4.90; 2-inch, \$6.50; 2½-inch, \$8.25, and 3-inch, \$10.50. Galvanized pipe, ½ and ¾-inch, \$5.64; 1-inch, \$6.64; 1¼-inch, \$7.41;

POLISHED CANADA PLATES

The best all Polished Plate in the market, bar none, is

"DOMINION CROWN."

Guaranteed to seam both ways. Ask your jobber for it.

A. C. LESLIE & CO.
MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.
Toronto.

ADAM HOPE & CO.
30 JOHN STREET N.
Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.
Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

1-inch, \$10.12; 1 1/4-inch, \$14.03; 1 1/2-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—In good request and firm. We quote as follows: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—Active business, with prices unchanged. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—In fair inquiry and steady at \$6.25.

COIL CHAIN—Business is fair and prices are higher all round. We quote as follows: No. 6, 10 1/2 c.; No. 5, 9c.; No. 4, 8c., and No. 3, 7c. per lb.; 1/4-inch, \$5.75; 5-16, \$4.50; 3/8, \$4; 7-16, \$3.55; 1/2, \$3.75; 9-16, \$3.70; 5/8, \$3.60; 3/4, \$3.40, and 7/8, \$3.30 per 100 lb.

SHEET ZINC—Fairly active and steady at 8 to 8 1/4 c.

ANTIMONY—In good request at 10 to 11 c.

SPELTER—Firm and higher, as follows: S.S., \$6.90, and V.M., \$7.

GLASS.

The market is still almost bare of supplies of window glass, and values are firm, with an upward tendency. We quote: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

The market is firm for all materials. White lead is strong and prices have advanced 12 1/2 c. per 100 lb. all round. White zinc paint has also been marked up 1c. per lb. Mixed paints are strong, and an advance in price is expected soon, as they cannot be manufactured at present prices for raw material. Turpentine is 2c. lower.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62 1/2; No. 2, \$5.25; No. 3, \$4.87 1/2.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6 1/2 c.; in oil, pure, 9c.; No. 1, 7 1/2 c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 64c., two to four-barrel lots, 1c. less, five barrels

and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8 1/4 to 8 1/2 c.

SEAL OIL—36 to 38c.

COD OIL—37 1/2 to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4 1/2 to 5 1/2 c. for colored, and 6 to 7 1/2 c. for white; oakum, 5 1/2 to 6 1/2 c., and cotton oakum 9 to 11 c.

PARIS GREEN—We quote: 250-lb. casks, 13 1/2 c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; 1/2-lb. packages, 16 1/2 c.; 1-lb. tins, 15 1/2 c.

MONTREAL NOTES.

Spelter has been advanced 15c. per 100 lb.

Cooper and poultry netting staples are 5 per cent. up.

Discounts have been materially reduced on escutcheon pins.

Coil chain is from 20 to 50c. higher all round, according to size.

The larger sizes of black iron pipe are all higher than they were last week.

While lead has been advanced 12 1/2 c. all round, and white zinc paint is 1c. higher.

Coopers' nails are about 5. per cent. higher than they were, and boot nails and galvanized roofing nails are dearer.

Knox Henry has received a large shipment of The Gunn Castor Co.'s patent "Brassic" goods and is busy filling orders.

T. L. Paton, Canadian manager for The London Emery Works, has received a large consignment of this firm's goods, and is now in a position to fill all orders.

ONTARIO MARKETS.

TORONTO, May 19, 1899.

HARDWARE.

WHILE there is a good business being done in the wholesale hardware trade, the volume of business does not seem to be scarcely as large as it was a week ago. This, however, is a usual experience about this time of the year, on account of the farmers being busy with their spring work. A feature of the trade this week is the number of letter orders which are being received by the wholesale houses. The difficulty noticed during the last few weeks in regard to the securing of supplies of certain seasonable lines, such as garden tools, harvest tools, green wire cloth, etc., still exists. The manufacturers in Canada of barbed wire are still finding it difficult to bring supplies of

Oakey's The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN Oakey & Sons, Limited

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO. - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND BRASS

Pumps

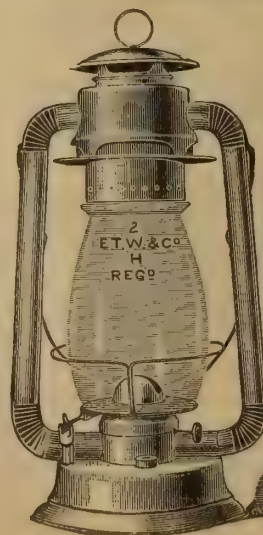
Force, Lift and Cistern Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDougall Co., Limited
Manufacturers, Galt, Canada.

E. T. WRIGHT & CO.

Hamilton, Canada.



"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.

Send for new Catalogue.

raw material and are consequently not in a position to do a great deal of business. Wire nails are in much better demand than they were a week ago. Cut nails are in moderate request. A seasonably good trade is being done in sporting goods. Enameled ware and tinware are in brisk demand. The season is beginning to open up in milk cans. In ice cream freezers and refrigerators, the demand is decidedly brisk. Oil and cooking stoves are selling fairly well. Spring hinges, poultry netting, wringers, churns, are all going out nicely. Green wire cloth is quoted 10c. higher, and this is the only quotable change to be noted in hardware this week.

BARBED WIRE—The manufacturers are experiencing the same difficulty in getting supplies of wire from the United States, and are, as a consequence, still handicapped in doing business. We still quote \$3 per 100 lb. f.o.b. Toronto, with 2 per cent. off to days.

SMOOTH STEEL WIRE—Trade in this line continues quiet and the base price unchanged, at \$2.50 f.o.b. factory.

FINE STEEL WIRE—Trade in this line is also without any particular feature, and the discount is unchanged at 25 per cent. f.o.b. factory.

GALVANIZED WIRE—There is not a great deal being done. We quote: 9 gauge, \$2.65; 12 gauge, \$2.80; 13 gauge, \$2.90.

WIRE NAILS—Both manufacturers and jobbers agree that trade during the past week has improved and that a good business is now being done. The base price remains steady at \$2.55 Toronto.

CUT NAILS—Trade is fair, although the orders are, as a rule, for small quantities. Business, compared with what it was a year ago, is evidently more active in this line. The base price is still \$2.05 f.o.b. Toronto, Hamilton and London.

HORSE NAILS—Business continues seasonably quiet. We quote: Standard, oval head, 50 per cent.; Acadia, counter-sunk head, 50 and 20 per cent.

HORSESHOES—Trade is still quiet as is to be expected at this time of the year. We quote f. o. b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—There is still a good business being done in this line, although no new features have developed. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head

THE DURABILITY OF OUR

METALLIC

Ceilings and Walls

COMMENDS THEM TO EVERYBODY.

They are equally suited for residences or public buildings—are exceedingly beautiful in effect—can be easily applied—do not need re-newing, and offer fireproof and sanitary qualities not found in any other style of interior finish.

We make countless designs, with borders, moldings, etc., to match, and prices are moderate.

Write for our catalogue if you haven't one—there's good business for you in these lines.



Sample Plate No. 229.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—Both manufacturers and wholesalers report a continuance of an active trade in this line at unchanged prices. We quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—Business in this line continues good at firm prices. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—There is nothing particularly new in the situation. Rope is fair, but advices from the outside markets report that hemp, both sisal and manila, is dull. We quote: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand, 9½c. per lb.; Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c.

Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A particularly good trade is reported in this line at unchanged prices. We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—Business continues fairly good at quotations. We quote: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—A fair trade is still to be noted. We quote as follows: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

GREEN WIRE CLOTH—Business continues active and jobbers are still unable to get their full quota of supplies from the manufacturers. Prices are 10c. higher, the figure now being \$1.30 per 100 square feet.

POULTRY NETTING—A good deal of this is still going out and the discount is unchanged at 50 and 5 per cent.

EAVETROUGH—A fair trade is to be noted. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—There is a decidedly active trade to be noted in this line. Discount, 40 and 5 per cent.

HARVEST TOOLS—A good trade is to be noted, although a scarcity of supplies in some lines is interfering with business. Discount, 60, 10 and 5 per cent.

LEATHER BELTING—A good trade is to be noted. We quote: Extra, 50 per cent.; Standard, 50 and 5 to 50 and 10 per cent.

CEMENT—A good trade is reported, especially in Canadian Portland. Prices are steady. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

Although there has been only one change in local quotations during the past week, the general tone of the metal market is firm, and in some lines the outside markets show a further advance.

PIG IRON—The Hamilton Blast Furnace Co. report a good demand for pig iron at unchanged prices, namely: No. 1, \$17; No. 2, \$16.50; No. 3, \$16, all f.o.b. cars at the furnace.

BAR IRON—The demand for this continues good and prices firm, at \$1.70 to \$1.75 per 100 lb.

BLACK SHEETS—A fairly good trade is being done in black sheets, and, although there has been a further advance this week in the prices of American black sheets, local quotations are unchanged, 28 gauge still being quoted at \$2.85 per 100 lb.

GALVANIZED IRON—The jobbers in Toronto have been notified by the manufacturers in the United States of the withdrawal of all quotations on galvanized iron. This announcement came on Wednesday, although new prices had been issued only about five days before. Local quotations are 10c. higher on American galvanized, although the price jobbers now quote is below what fresh lots could be laid down at. "Queen's Head" brand is unchanged, 28 gauge still being quoted at \$4.75 per 100 lb. American is quoted at \$4.60, and "Gordon Crown" at \$4.50. A good trade is being done by local jobbers, and a number of import orders have been delivered during the past week.

COPPER—The outside copper markets have advanced somewhat during the past week, although business is reported to be quiet. Locally, trade is good in ingot copper, with prices firm, at 19 to 19½c. per lb. Sheet copper is also in good demand at 23 to 23½c. per lb.

PIG TIN—There is not much business being done, and prices are, on the whole, firm, both at home and abroad. Wednesday's cables noted a steadier tone at the foreign centres. Local quotations are 28½c. for Straits and 29c. for Lamb and Flag.

TIN PLATES—There is a fair movement in tinplates, and prices are firm at the recent advance.

TIN SHEETS—The demand for these continues good and prices firm. We quote: 24-gauge, 6 to 6¾c.; 26-gauge, 6¾ to 7c.; 28 gauge, 7½ to 7¾c. per lb.

CANADA PLATES—These continue quiet with prices firm. We quote: All dull, \$2.70 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—Trade is fair and prices unchanged. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—The outside markets are decidedly firm. Locally, the market is quiet and unchanged at 4¼ to 4½c. per lb.

IRON PIPE—The demand for iron pipe is decidedly brisk, and prices are firm at the recent advance. We quote as follows: ½ to ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ½ inch, \$5.75; ¾ inch, \$7; 1 inch, \$9.85; 1¼ inch, \$14; 1½ inch, \$17.50; 2 inch, \$24.50.

RANGE BOILERS—Trade continues fair and prices firm at the advance. We quote: Galvanized, 30 gals., \$7; 35 gal., \$8; 40 gal., \$9. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Business is only moderate and prices steady and unchanged. We quote: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4;

7-16 in., \$3.80; ½ in., \$2.75; ¾ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—A good demand is still to be noted for this line at 8¼c. for cask lots and 8½c. for small lots.

SPELTER—This has been selling pretty freely during the past week, at 7½ to 7¾c. per lb. Advices from the outside markets show firmness as to price.

SOLDER—Is in fairly good demand and we quote: Half and half, 17c.; refined, 16½c.; wiping, 16c.

ANTIMONY—The market continues steady, and local prices are unchanged at 11 to 11½c. per lb. for Cookson's.

GLASS.

The advance noted last week is well maintained. Import orders are still delayed, no shipments having yet started from Belgium, whereas last year the first lots were sent out fully a month earlier. We quote: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

PAINTS AND OILS.

A brisk jobbing trade is reported, all materials moving excellently. The sale of paris green is increasing, as is also the demand for prepared paints. Turpentine stocks are again low. Whiting and paris white are more plentiful. All other stocks are abundant. White lead has advanced, as was anticipated in these columns two weeks ago, the rise being 12½c. per cwt. Whiting is 5c. per 100 lb. cheaper. Otherwise prices are unaltered, all materials, except turpentine, being firm. Turpentine is easy, and prices will probably be lower in a day or two. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

Binder Twine

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.
LONDON, ONTARIO.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 66c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

OLD MATERIAL

A firm feeling continues. Prices are unchanged. We quote as follows: Agricultural scrap, 40c. per cwt.; machinery cast, 52c. per cwt.; stove cast scrap, 30c.; No. 1 wrought scrap, 45c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL

HIDES—The feeling has strengthened considerably. Cowhides are ¼c. dearer. We quote cowhides: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c. Steer hides are worth ½c. more. Cured hides are worth 8¼ to 9c.

SKINS—The feeling is easy in consequence of free offerings. We quote: No. 1 veal, 8-lb. and up, 10c. per lb.; No. 2, 8c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins are coming in slowly at 90c. to \$1, and lambskins at 20c.

WOOL—A decline of 1c. is noted in fleece, which is now selling at 13c. Unwashed is easy at 8 to 8½c.

PETROLEUM.

Business is quiet. Prices are unchanged. We quote in barrels at Toronto: Can-

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass. Also of a durable, highly-polished material called "MARBLETT," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. Benders, Embossers, Brilliant Cutters, etc., etc. Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

adian, 14½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

COAL.

There is no change. Prices are firm. We quote anthracite at Buffalo and bridges as follows: Egg and stove, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

MARKET NOTES.

Galvanized iron of United States make is quoted 10c. higher.

Green wire cloth is quoted 10c. dearer at \$1.30 per 100 square feet.

White lead is 12½c. per cwt. dearer; whiting has declined 5c. per 100 lb.

The Toronto branch of The McClary Manufacturing Co., Limited, is being removed from No. 49 Front street west to Nos. 14-18 Bay street, the premises formerly occupied by Dick, Ridout & Co.

H. S. Howland, Sons & Co. are in receipt of a large shipment of Boker's "Dandy," "Keen Cut," "Perfection" and ball bearing horse clippers. These goods have been scarce for some time.

NEW YORK METAL MARKET.

PIG TIN—There was comparatively little change in the market here, and advices by cable showed a steadier tone at the foreign centres. As far as business is concerned, there was also an absence of new feature. Nothing materialized, as usual of late, on 'Change, and outside speculation was a very tame affair. Deliveries to consumers continue liberal, however, and benefit the market. It is estimated that fully 400 tons have been delivered so far this week. Prices here were about 25.65 to 25.70c. for 5-ton lots and 25.75 to 25.85c. for smaller quantities.

COPPER—The buying for both home and export account is still on comparatively moderate scale, and inquiries are not remarkable for spirit. To all accounts, the

near future wants of consumers on both sides of the Atlantic are well covered and only the smaller interest will purchase at the comparatively high prices now asked. On future deliveries the quotations are 18½c. for Lake Superior ingot, 17½ to 17¾c. for electrolytic bars, etc., and 17 to 17¼c. for ordinary casting stock. London cables noted a shrinkage in the premium on spot merchant bars, £2 2s. 6d. to £1 15s., and also reported a rather quiet market.

PIG LEAD—A decidedly firm but quiet market is still to be reported. The labor difficulties in western mining districts still have a tendency to restrict offerings, and that fact, in turn, serves to keep prices comparatively high. Buyers still act very indifferently, however, and the volume of business here is rather small. About 4.45 to 4.50c. was quoted for deliveries here, prompt or near future.

SPELTER—No change transpired in the market here. Orders ran light and were nowise numerous, but offerings were moderate and holders stood firmly on prices at about 6¾ to 7c. for standard western brands, delivered in this vicinity.

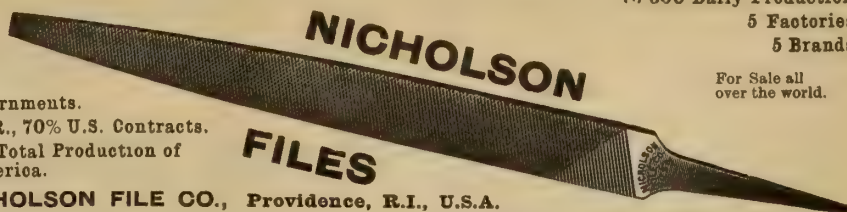
ANTIMONY—Regulus is quoted at 10 to 11c., as to brand, and continues to sell very fairly.

TINPLATE—In some quarters business was reported somewhat better, with medium weight American cokes faring the best. Generally speaking, however, the market is slow. Prices remain without important change.

IRON AND STEEL—Nothing out of the ordinary line in the way of business or new demand noted in the market for crude materials or finished products, and prices were unchanged.—N.Y. Journal of Commerce, May 18.

MAGNOLIA'S CANADIAN OFFICE.

The Canadian office of The Magnolia Metal Co., New York, has been removed from 318 St. Paul street, Montreal, to room 524 Montreal Board of Trade building.



COST OF PRODUCING CUTLERY.

VERY much has been said at different times relative to the cost of construction and labor of various articles in this and other countries, and though it is very hard to arrive at any very definite data as to articles in general, yet some comparisons have recently been made between the cost of producing various articles in the United States, England and Belgium, the results of which are given below :

In the cutlery industry units were obtained for pocket-knives, table knives and table knife blades. Data furnished by four firms in the United States as to the cost of one dozen ivory-handled table knives show for the first of the four establishments a varying valuation of \$6.66, \$5.55 and \$4.96 ; in the second instance, the cost was \$6.04 ; in the third, \$2.94, and in the fourth, \$8.12. The different quotations as to cost in the same establishment were due chiefly to the different grades of ivory used. The cost of producing the same articles in Great Britain has been shown to be \$4.50 and \$4.56 per dozen, the variation being due to the blade being in one case hand-made and in the other machine-made.

The investigation showed that the cost of manufacturing one dozen pearl-handle, Congress pattern pocket-knives, 3¼ inches long, with medium German silver bolsters and brass lining, and having two blades of English Wardlow steel, to be \$6.41 ; the same style of knife, but having four blades, is reported to have cost \$8.11. One dozen pocket-knives, pearl handles, of the Senator pattern, 3½ inches in length, with ⅝-inch German silver bolsters, lined with German silver, and having four blades of Thos. Firths & Sons' English blade steel, cost \$10.34 to manufacture; the same knife, having but two blades, and ¼ inch shorter in length, cost \$4.99 per dozen. The cost of producing one dozen pearl-handled knives, also of the Senator pattern, with two blades of forged English Wardlow steel, is reported to be \$6.63, and the same with four blades, \$8.26 per dozen. A two-blade ivory-handled knife of the same pattern costs \$3.07 when the blades are of English Wardlow steel, or \$3.57 when they are of Thos. Firths & Sons' English blade steel, and so on through the list, those having blades of Wardlow steel always costing less than those of Thos. Firths & Sons.

Several quotations are also cited of the cost of producing table cutlery in the United States. For instance, one firm report that they can produce a pearl-handled table knife, 3¾ inches in length, with a sterling silver ferrule three-quarters of an inch long, and a blade 5¾ to 6 inches long, made of a fine grade of American crucible steel, for \$8.80 per dozen ; a very

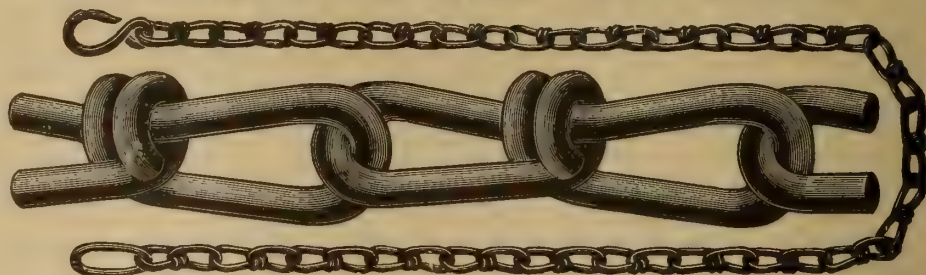
We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

similar knife, but with the pearl handle one inch shorter and having the blade silvered, costs \$10.70 to produce. An ivory-handled table knife of the best grade, 3½ inches long, with a plain one-half inch bolster, and having a blade similar to those mentioned above, costs \$6.11 per dozen, while the same, with a second quality ivory handle, cost but \$5.55, or, with the third quality of ivory, only \$4.96. It is almost incredible to believe that a knife can be produced so cheaply that the cost to manufacture one dozen is only 25 cents, yet, one statement offered is that of a knife made with a redwood or cocobolo handle 3½ inches long, no bolster, blade 5¾ inches long, machine cut, of low-grade open hearth steel, for which the total cost of production is reported to have been but 25 cents per dozen.

In Great Britain the cost of manufacture of one dozen of ivory-handle, 4 inches long, table knives, with one-half inch bolster and a blade 6¼ inches long, machine-made, of good ordinary steel, is \$4.50, while the same article having a hand-made blade costs, to produce, \$4.56 per dozen. The same knife, manufactured in the United States, with the blade of best English steel, costs us, to manufacture, \$8.12 ; if made with a blade of ordinary grade American crucible steel, \$6.04 per dozen.—Jewelers' Circular.

BUSINESS BEFORE PLEASURE.

Fussy Man (hurrying into newspaper office)—I've lost my spectacles somewhere, and I want to advertise for them, but I can't see to write without them, you know.

Advertising Clerk (likely to be business manager some day)—I will write that ad. for you, sir. Any marks on them ?

Fussy Man—Yes, yes. Gold-rimmed, lenses different focus, and letters L.Q.C. on inside. Insert it three times.

Advertising Clerk—Yes, sir. Five dollars please.

Fussy Man—Here it is.

Advertising Clerk—Thanks. It gives me, sir, great pleasure, very great pleasure, to inform you, sir, that your spectacles are on the top of your head.

Fussy Man—My stars ! So they are. Why didn't you say so before ?

Advertising Clerk — Business before pleasure, you know.—New York Weekly.

WHITING MORE PLENTIFUL.

For some time there has been considerable scarcity of whiting on the Toronto market. Recent shipments have somewhat relieved the shortage, and, as a result, there has been a decline of 5c. per cwt. in prices, the ruling price now being 55c. It is said, too, that some sales have been made at 50c. per 100 lb. Gilder's whiting is unchanged at 85c.

The Enormous Rush

of business this Spring prevented us from giving our customers as prompt shipments as we would like, but we have now caught up, and can insure our friends that all

ORDERS NOW ENTRUSTED

to us will get the same prompt despatch as heretofore.

When customers order goods by letter we know they want them at once, and we

Make a Big Effort to ship the same day the order is received.

LEWIS BROS. & CO.

AGENTS FOR . . .

Henry Disston & Son
Smokeless Powder Co.
Hurd's Celebrated Axes
Sewall & Day's Binder Twine.

30 St. Sulpice Street

MONTREAL.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

IT is calculated that owing to the increased price of steel, a steamer of 3,000 tons register costs £38,000, or £7,000 more than it could have been built for two years ago.

A meeting of the tinplate manufacturers was held at Swansea on Tuesday, when it was announced that practically the whole of the makers had agreed to join in the formation of a new association. The shipments last week from Swansea were lighter, and with lower prices quoted again in America the outlook is unsettled. Makers' prices remain as last quoted.—Iron and Steel Trades' Journal, May 6.

FINISHED IRON IN ENGLAND.

It is said that in some branches of the steel trade there is a lull in the demand for future delivery. This is not the experience of finished iron manufacturers, who, in all districts, are finding a much stronger demand both for immediate and future delivery. The position on the continent and in America is now distinctly favorable to the British manufacturer who is now very likely to get a good deal of his own export trade back from competitors who have been placed hors de combat by the pressure of other engagements. The makers of best iron in South Staffordshire report a very satisfactory demand, and makers of medium and common qualities of iron are maintaining, if not increasing, their output. The North Staffordshire and Warrington works are all busy, and advices from Cleveland, the Northwest coast and Scotland, are favorable. The Pearson & Knowles Company have, this week, advanced the price of hoops 7s. 6d. per ton, making the base price £7 10s. per ton.—Iron and Steel Trades Journal, May 6.

AFRAID OF THE COPPER MARKET.

Those Birmingham manufacturers who happen to be engaged in industries in which copper plays an important part are at no pains to conceal their chagrin at the inflated condition of the copper market. Very few of the mills appear to be well provided with raw materials, and, as a consequence, most of them are working short time, while others have partially closed their works. Manufacturers of brass and copper goods are very careful to buy no more raw material than is absolutely necessary for their immediate requirements, while some of them are going so far as to melt down such manufactured articles as encumber the shelves of their stock-rooms, for the purpose of converting them into more salable articles.

Some manufacturers are already turning their attention to the provision of suitable

substitutes for copper. It is understood that certain of the railway companies have determined to substitute steel tubes for copper in their boilers, and, as a Birmingham firm has recently perfected a process for rendering steel tubes as durable and safe as those made from the more expensive material, it is quite probable that their example will be followed by boilermakers generally.—Iron-monger, London.

PIG IRON SHORTAGE IN GERMANY.

The shortage of pig iron, due mainly to the scarcity of coal and coke, is likely to become still more accentuated, owing to the strike of the coal miners in Belgium. The Luxemburg blast furnaces are no longer able to obtain regular supplies of fuel, and will probably have to be damped down unless the labor troubles in Belgium are speedily adjusted. German ironmasters are in some cases being inconvenienced also, owing to supplies of coke having been diverted from them to consumers in Belgium.

ADVANCE IN PLUMBERS' SUPPLIES.

The following is taken from The Metal Worker: Several more advances have been announced this week, details of which are given below. The tendency of prices continues upwards, without sign of any check. The demand for plumbers' supplies of all kinds is referred to as active, and manufacturers generally state that their facilities are taxed to the full to meet their orders.

Prices of all kinds of cast, wrought, and malleable fittings, and of iron cocks, valves, etc., have been advanced from 5 to 10 per cent., in consequence of the higher price of the raw material.

Manufacturers have marked up prices on standard range boilers about 5 per cent. To the smaller trade the ruling discount on 30, 35 and 40-gallon boilers is 65 and 5 per cent., and on other sizes, up to 52 gallons, 62½ per cent. off.

Plumbers' earthenware has been further advanced in price about 5 per cent. Basins, urinals and hoppers, in a retail way, are quoted at discount 40 to 45 per cent., and closet bowls, sundries, washouts and pedestals at 45 and 50 per cent. off.

The higher price of pig lead has caused a stiffening in the price of drawn lead traps to 40 and 10 to 45 per cent. discount.

SCARCITY OF PIG IRON.

There are many indications that the iron markets are again reaching a critical period, and it will take tact and forbearance on the part of the producers and consumers alike to

prevent another sharp advance. The scarcity of pig iron and of steel is getting more pronounced. Our monthly pig iron statistics show that the production of coke and anthracite iron during April increased 4,300 tons per week, while the furnace and warrant stocks declined 46,700 tons. In other words, consumption is still in excess of current requirements. It is true that we are entitled to look forward to a steady increase in the output, East and South, but experience thus far has taught how slow that is. The leading producers are now sold up for the third quarter and many beyond that period.—Iron Age.

AMONG TORONTO RETAILERS.

The Queen's Birthday seems to have become permanently fixed in the mind of the small boy as the day for fireworks, large and small. If he cannot have at least a box of firecrackers he considers his lot a hard one, and he is not fully content unless he can add to the small crackers a few rockets, pin-wheels or cannon crackers. The result is that May 24 yields a nice harvest to the hardware dealer who does some good sowing in the minds of the youth in his neighborhood. The trade in these goods might be extended by making special offers to parties taking a good lot. The profits on fireworks are such that a material reduction can be made in sales of large quantities. This is done by some dealers, who make quite a fair profit out of their trade in these goods on May 24 and July 1. As May 23 is now recognized as Empire Day in our public schools, the youngsters should be easy to persuade that they should have a supply of fireworks with which to do honor to the "Glorious Empire." Window displays of these goods are shown in many of the hardware windows of the city. They are shown best, I think, on stands reaching from the floor of the window in six or eight steps to about four feet from the floor. These displays keep the thought of firecrackers so continually in the minds of the youngsters that little further advertising is necessary.

Pushing Paris Green.

Because paris green is a staple is no reason why it may be expected to sell in as large quantities as possible without effort. On the other hand a good educative campaign should materially help sales. There is no doubt that much fruit and many vegetables are lost every year by insufficient spraying. The hardware merchant should make a study of the spraying, and should drive it home to farmers and gardeners that they should spray, and might offer to give the benefits of his studies to his customers. Better late than never. THE RAMBLER.

THE IRON SITUATION.

THE IRON TRADE REVIEW, Cleveland, of May 18, says: "The week has given added testimony to the drift of affairs in the iron trade. Conditions are apparently growing more strained, so far as the pig iron market is concerned. Theoretically, there has been support for the position taken by some members of the trade that continued additions to pig iron production, aided by the check put upon consumption by the high prices of all materials since the beginning of the year, would stop advances and start a decline.

"Practically the argument has come to naught, simply because the country continues to take more iron than is made. Returns show that stocks of coke and anthracite iron on May 1 were only 186,000 tons—four or five days' supply. Adding charcoal stocks, the total was 262,000 tons, in addition to 86,000 tons in warrant yards, which fell to 76,000 tons on May 10. In April, makers' stocks decreased 40,000 tons and warrant stocks 23,000 tons, while production increased 4,300 tons a week.

"There is increasing difficulty in supplying current wants of foundries; and as to the second half of the year, while no definite data are available, it is known that many furnaces have sold from 75 to 80 per cent. of their product, while large requirements are yet to be provided for. The large sales of southern forge in Pittsburg and the valleys advanced the price to \$10.75 Birmingham on the last purchases, and it has now been put at \$11. Northern foundry iron has advanced 50c. in the week and sales of No. 2 have been made at \$15.50 furnace, while \$16 has been asked and obtained this week in a few transactions.

"The Bessemer furnace owners, under further inquiry, have advanced the price from \$15 to \$16 in the valley, and, in view of the amount of metal steel works will require, it is questioned if the supply will be adequate in the second half. A sale of 10,000 tons at \$16 is reported. Time has made the situation in steel even more acute.

Billets have sold at \$27.25 Pittsburg, and it is evident that mills will be kept busy into the third quarter on contracts taken for second quarter delivery, nearly all being oversold.

"Two large buyers of steel, The American Steel and Wire Co. and The American Steel Hoop Co. have paid in the neighborhood of \$25 for billets for the second half. While the trade at large has been watching narrowly for reliable indications of curtailment of consumption because of the high prices, no noteworthy development in this direction appears as yet. It is well understood that high prices will tell at length, but when?

"The fact that crops abroad are so plentiful that low prices for grain will rule at home, added to the certainty that railroads will have smaller crops to haul than in the past two years, will come back to the iron trade at length. Producers of structural shapes have kept their prices below their natural position relative to plates and bars, evidently that construction operations may not be sharply restricted; but an advance here is expected soon. The export trade has not suffered to the extent expected under high prices.

"English pig iron markets have been advancing rapidly, and, after a slight decline there, the top figures again prevail. Sales of Southern pig iron for export to continental points are reported this week at the highest price yet paid by Europe for American iron, and the demand continues. In consolidation lines the week has been uneventful. The Republic Iron & Steel Co. has completed its organization and established its offices in Chicago. Two or three mills in the list of properties included are reported to be still outside. The wrought pipe consolidation is nearly ready. It is understood that one Pittsburg plant, manufacturing iron pipe exclusively, will not be included. The promoters of the sheet mill consolidation have arranged with one Pittsburg district interest that has been counted on the outside."

A FORTY-MILE WHISTLE.

The whistle on the new Atlanta Milling Co.'s mill has been constructed to be audible at Macon, 40 miles distant. This "humming bird" is eight feet in height and consists of three bells of a special composition of bronze and bell metal, arranged between two discs of steel. The larger bell has the mouths turned upwards, and the other two their mouths turned downwards; a 3-inch pipe conveys the steam through shallow openings in the circular discs. The bells are tuned to an eighth and a fifth of a cord, and harmonize as accurately as the best-tuned piano. Through the peculiar arrangement of the gongs they chime with the accuracy of a set of well-tuned bells, and the vibrations are such that the sound of the whistle is not harsh, but soft and low, and yet of such power that it can be heard for 40 miles. The bell cost \$150, and the amount of steam required to sound it would run a 75-horse-power engine. Two steel wire cables are required to open and close the conical valves, operated by a pulley, that admits the steam.—The Tradesman.

FUTURE BRITISH MECHANICAL POWER.

The president of the British Coal-Mining Association, Mr. Forster Brown, in the course of a recent address, remarked that within 50 years the best of the British coal, the kind that is now being worked, would be exhausted. After that, there will remain thin seams, and thick seams at very great depths, neither of which could at present be worked in competition with the more accessible coal. Commenting on the foregoing, The Dundee (Scotland) Observer says: "When our accessible coal is exhausted, it is doubtful if the thin seams and the very deep seams can be worked in competition with the more accessible supply of other lands, as yet but slightly encroached on. Perhaps, however, before the 50 years have run, we shall have developed other sources of energy which will diminish our dependence upon coal. We have begun to utilize our water-power to some purpose, and the experimental physicist has visions of sources of energy hardly dreamed of by ordinary humanity."

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WILL CLEAN BOTH SIDES OF CHAIN AT ONE OPERATION. CAN BE WASHED IN HOT OR COLD WATER.

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LEINER'S PAT. BICYCLE TIRE BRUSH.
WILL CLEAN AND POLISH TIRE AND RIM AT THE SAME TIME WITHOUT TROUBLE OR SOILING THE HANDS.
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JUST-WHAT YOU WANT. Write us for prices and samples.

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TRAVELERS AND INSOLVENCY.

THE Dominion Commercial Travelers' Association met in quarterly session on Saturday night at Montreal in their rooms in the Board of Trade building and discussed the proposed insolvency law. Mr. Max Murdock, the president, reported the standing of the association as most satisfactory. The membership had increased 250 during the first six months. They were now about the 3,000 mark. Up to the present time, he said, we have paid in death claims \$7,625, as against \$13,675 for the same period last year. Should Providence favor us to the same extent for the balance of the year, our financial statement will be exceptional.

Hon. J. D. Rolland, the past president, with the president, constituted a deputation that, during the past month, has been pressing upon the Justice Department of the Dominion Government for the disallowance of the amendment of 1898 to the Act of 1894, passed by the Legislature of Prince Edward Island referring to commercial travelers. The Government is considering the matter, and this decision will be announced some time previous to August 19, the time limit in which it has the right to interfere in the matter. They had been generously assisted by Messrs. Prefontaine and Madore.

The special matter that is desired to lay before the meeting, said the president, is a series of resolutions, that having been approved by the executive are referred for your endorsement. They refer to an Act of Insolvency about to be introduced into the Federal Parliament. That such legislation is desired is not seriously questioned. The arrangement for the distribution of the assets of an insolvent debtor is now in a state of chaos, each of the seven Provinces having its own law, some of them bad and the rest iniquitous. The United States has labored under the same difficulty until last year, when a Federal Insolvency Act was passed which promises to give great satisfaction. Canada is now enjoying a season of great prosperity, and the need of such a law is not apparent. Depression will come. We trust it may be long delayed—but it follows as does night the day, that seasons of prosperity are followed by times of difficulty. Let this country be ready and with an equitable Federal insolvency law bring harmony out of the chaos that now exists.

Mr. Gregg said that, having been a commercial traveler for nine or ten years, and, later, having attended to the office of a large business house which had connections in all the Provinces, he was convinced of the absolute need of such an Act. Mr. Gregg discussed very minutely many of the details

of the proposed Act, showing the great advantage of uniformity.

Mr. Rolland, in seconding the resolution, said that representatives from Great Britain, France and Germany found great difficulty in extending their business here on account of the bad state of our laws. He trusted that all the pressure possible should be used to induce Parliament to pass Mr. Fortin's bill.

Addresses were also delivered by Messrs. James Croil, James Robertson, William Gosling, L. O. Demers, J. T. Dwyer and Fred. Birks, who proposed and seconded the different resolutions as follows :

Resolved :

(1) That the absence of uniformity in the legal procedure for the distribution of the assets of an insolvent debtor is detrimental to the commercial interests of the Dominion, and an obstacle to the extension of trade, both external and internal.

(2) That this uniformity can only be obtained by means of a Federal Insolvency Act.

(3) That the general provisions of the bill, respecting insolvency, presented by Mr. Thos. Fortin, member for Laval, are endorsed by this association.

(4) That it is urgent that legislation embodying such provisions as proposed by Mr. Fortin be passed during the present session of Parliament.

INCREASING UNITED STATES IRON PRODUCTION.

The Iron Age, in its monthly summary of the pig iron production, says : Although there has been quite an increase in the number of furnaces in blast, their small

capacity has not made much impression on the total, which, however, has now surpassed the record. Stocks show a decline, which proves that consumption is still in excess of the make. The weekly capacity of the furnaces in blast on May 1 compares as follows with that of preceding periods :

	Furnaces in Blast.	Capacity Per Week. Gross tons.
May 1, 1890	250	250,095
April 1, 1899	205	245,746
March 1, 1899	192	228,195
February 1	195	237,639
January 1	200	243,516
December 1, 1898	195	235,528
November 1	196	228,935
October 1	192	215,635
September 1	186	213,143
August 1	187	206,777
July 1	185	216,311
June 1	190	225,308
May 1	194	234,163
April 1	194	233,339
March 1	193	234,430
February 1	184	228,338
January 1	188	226,608
December 1, 1897	191	226,024
November 1	183	213,159
October 1	171	200,128
September 1	161	185,506
August 1	152	165,378
July 1	145	164,064
June 1	146	168,380
May 1	146	170,528

The position of furnace stocks, sold and unsold, as reported to us, was as follows on May 1, the same furnaces being represented as in former months. This does not include the holdings of the steel works producing their own iron :

Stocks—	Dec. 1.	March 1.	Apr. 1.	May 1.
Anthracite & coke	441,971	328,987	229,907	205,125
Charcoal	107,353	98,094	82,056	75,583
Totals	544,024	427,081	311,963	280,708

WARRANT STOCKS.

We are indebted to The American Pig Iron Storage Warrant Co. for the following statement of stocks of warrant iron :

Stocks—	Dec. 1.	March 1.	Apr. 1.	May 1.
Coke & anthracite	122,000	95,000	82,700	60,700
Charcoal	38,800	31,300	27,000	25,800
Totals	160,800	126,300	109,700	86,500



THE very best tires on the market are Goodrich-Resflex Single Tubes.

They never bring dissatisfied customers back to the salesman.

From the point of view of the dealer, they are the only tire that he can safely sell without endangering the good-will between dealer and customer.

Our mail order system will allow any dealer in Canada to secure Goodrich-Resflex Single Tubes as easily as if in Toronto.

Free repairs made in Toronto, Montreal, Halifax or Winnipeg.

Everything that will help the dealers' sales is systematically done.

Private booklets of acknowledged interest to dealers are sent to those who ask.

American Tire Co., Limited,
161-166 King St. West, Toronto.

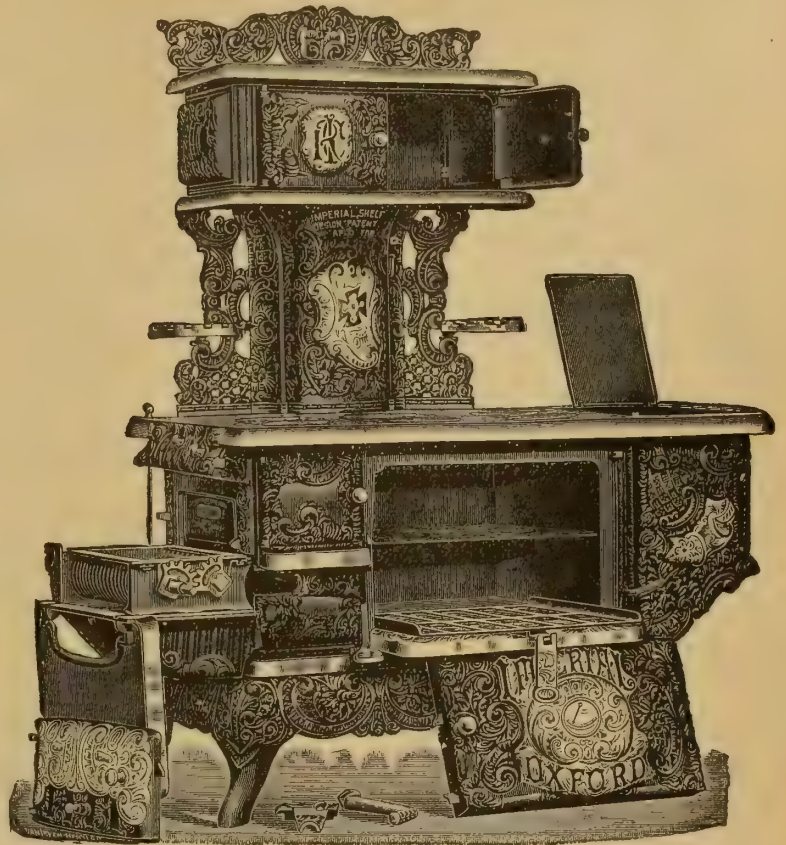
The demand for our
new range

The Imperial Oxford

increases daily. Each one sold causes other sales, so enthusiastic are housekeepers over its improved features.

Its ease of regulation, economy in using fuel, diffusive flue construction, front draw-out grate, oven thermometer, draw-out oven rack, and other conveniences give it a superiority quickly appreciated.

You're sure of speedy sales when handling the Imperial Oxford. For full information and price list write us



The Gurney Foundry Co., Limited, Toronto

THE GURNEY-MASSEY CO., Limited, Montreal.

PURE LEAD
PURE OIL
PROPERLY
REPAIRED at **PROFITABLE
PRICES**

In neat and attractive packages, all colours,
ready for use are the features of



ISLAND CITY READY-MIXED PAINTS

If you have not these in stock write or ask our travellers
for prices and colour cards.

P. D. DODS & CO.

100 Bay Street,
TORONTO.

188 and 190 McGill Street,
MONTREAL.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO.

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

J. K. MACDONALD,
Managing Director

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

J. H. KNAPTON & CO., general merchants, Bedford, Que., are offering 55c. on the dollar.

Jas. Pelchat, general merchant, St. Joseph, Que., has assigned.

Wm. Robinson, carriagemaker, Newcastle, N.B., has assigned to A. A. Davidson.

G. D. Steeves, general merchant, Hillsboro', N.B., has assigned, and is offering 40c. on the dollar.

J. M. Lachapelle, general merchant and blacksmith, St. Jovite, Que., has assigned to Bilodeau & Benaud.

PARTNERSHIPS FORMED AND DISSOLVED.

Bergeron & Leblanc, carriagemakers, St. Eulalie, Que., have dissolved.

Bennett & Williamson, hardware dealers, Medicine Hat, N.W.T., have dissolved, W. A. Williamson continuing.

W. J. Kernaghan, hardware dealer, Prince Albert, N.W.T., has admitted J. T. Brightmore under the style W. J. Kernaghan & Co.

Martin & Sime, harness dealers, Dunnville, Ont., have dissolved, Peter I. Sime continuing.

Hamilton & Co., charcoal, coal and wood dealers, Toronto, have admitted H. Powell under the old style.

Michael J. McDonald and Wm. P. Hakey have registered as partners under the style of McDonald & Hakey, founders, Granby, Que.

John J. Fynn and Roderick McDougall have registered copartners under the style of Fynn & McDougall, general merchants, Port Hood, N.S.

Thomas Kickham, general merchant, Souris, P. E. I., has admitted Charles McKinnon, under the style of Thomas Kickham & Co.

SALES MADE AND PENDING.

C. E. Nelles, harness dealer, Vienna, Ont., is advertising his business for sale.

The business of the estate of Wm. Stafford, founder, Lancaster, Ont., is offered for sale.

The assets of Jos. Carboneau, general merchant, Normandin, Que., are to be sold on May 20.

The assets of Adelard Tremblay, general merchant, Chicoutimi, Que., are to be sold on May 20.

Dewolf, Son & Co., carriagemakers, Halifax, are advertising their stock for sale by auction.

The assets of Geo. Barrington, Sons & Co., manufacturers of trunks, Montreal, have been sold.

CHANGES.

A. Doran, harness dealer, Lindsay, Ont., is out of business.

Humphrey Bowser is starting a planing mill in Dorchester, N.B.

G. W. Shay, blacksmith, Eburne, B.C., has sold out to John Mercier.

W. W. Brown, bicycle dealer, Colborne, Ont., has sold out to Fred. Miller.

Neil Boyd, general merchant, Corbetton, Ont., has been succeeded by John A. Foster.

Forsythe, Anderson & Co., general merchants, Essex, Ont., have sold out to L. L. Barber.

Wm. Halliday, general merchant, etc., Pakenham, Ont., has sold out to J. R. Fluker.

Robert Armstrong, stove and tinware dealer, Millbrook, Ont., has retired from business.

Henninger & McAlpine, hardware dealers, Cascade City, B. C., have removed to Columbia.

Seaney & Co., general merchants, Ymir, B.C., have removed to Nelson and opened a cigar store.

The Sudbury Copper and Nickel Co., Limited, has been incorporated, with headquarters in Sudbury, Ont.

Sarah J. Graydon, general merchant, Mono Road Station, Ont., has been succeeded by J. T. Horsley.

The Maple Leaf Rubber Co., Limited, Toronto, has had its name changed to The Queen City Rubber Co., Limited.

Gray & Co., hardware dealers, Orangeville and Shelburne, Ont., have been succeeded at Shelburne by Joseph Akitt.

The stock of the estate of Kenneth R. McKenzie, late general merchant, North Sydney, N.S., has been sold to Vooght Bros.

FIRES.

F. W. Fay, general merchant, Port Burwell, Ont., has been burned out.

M. A. Smart, sash and door factory, at South Finch, Ont., has been burned out.

Charles R. Dickie, general merchant, Muddy Creek, P.E.I., has been burned out; loss estimated at \$3,000; no insurance.

N. H. Gray, dealer in agricultural implements, and A. R. Wright, tinsmith, etc., Port Burwell, Ont., have been burned out.

DEATHS.

Zacharie Cardeau, general merchant, Acton, is dead.

W. B. Burgess, general merchant, Port Stanley, Ont., is dead.

John P. Mowatt, general merchant, etc., Campbellton, N.B., is dead.

John A. Bull, wagonmaker and blacksmith, Toronto Junction, is dead.

Wm. Cane, president of The Wm Cane &

Sons Manufacturing Co., Limited, manufacturers woodenware, etc., Newmarket, Ont., is dead.

Francis Coderre, of Coderre, Fils & Co., hardware dealers, etc., Sherbrooke, Que., is dead.

PRICES GETTING TOO HIGH.

IT is impossible to look with complacency on the continued upward tendency of prices. On some commodities an unreasonable height has already been attained, while indications point to a similar performance on the part of a number of others. Intoxicating as the experience may be of writing orders on which a profit of 50 per cent. or more is realized, the point should not be overlooked that when such a condition prevails in respect to staple products it will assuredly lead to a disturbance of the harmony of related interests. Consumption will be checked by the growing conviction that values are too inflated to last, and that high-priced raw material will make finished products too dear to be readily marketed. A flagrant instance of this is seen in the case of copper, which has reached what the trade now term a "fancy" price. The use of copper increased enormously during the epoch of low prices, and the volume of business thus realized is undoubtedly used as a basis upon which to calculate expectations of great returns in the future to copper producers. But unless all signs fail the consumption of copper is being curtailed by the reluctance of manufacturing concerns to make up large stocks of goods on the present basis of cost as well as by the substitution of other metals wherever practicable. Restrictive effects are also seen in products composed in part of iron or steel and brass. Manufacturers of machine tools report the indefinite postponement of projected enterprises of considerable moment in the production of brass goods, which would have involved the purchase of considerable machinery. Thus, the high price of copper not only injures the copper trade itself, but incidentally carries with it an injury to the iron and steel and machinery trades.

But iron and steel producers are not altogether without blame in this respect. Their prices are also attaining altitudes which cause much concern. If they go any higher it is likely that business will be checked. This would in time correct the situation, as prices fall as soon as sellers hunt for buyers. But a little conservatism now, and less inclination to mark up prices for the consumer who is caught short, may considerably prolong this year of heavy consumption and general prosperity.—Iron Age.

All the merchants of Acton, Ont., but one or two have started closing at six, except on Saturday.

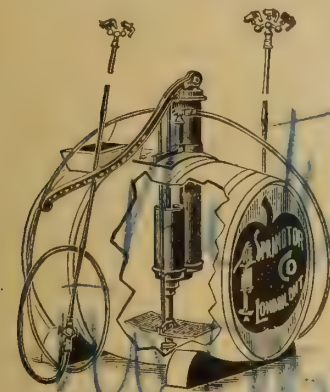
The
**DETECTIVE AND CONFIDENTIAL
AGENCY.**

Room 12, Janes Building,

75 Yonge Street - - - TORONTO

Investigate all matters in secrecy—Burglary, Robberies, Fires, Embezzlements; Lost Friends Located; Legal and Private Reports; Movements of Employes or Friends.

All Spraying, Disinfecting, and Whitewashing can be done with **THE SPRAMOTOR.**



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898. Spramotor Company, London, Ont. Gentlemen,—

The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in

spraying fruit trees. We had a good crop of apples, whereas our neighbors, who used no spraying apparatus, had practically none. Yours truly, W. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimstey, on April 2nd and 3rd, 1898, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded **FIRST PLACE.**

H. L. HUTT, } Judges.
M. PETTIT, }

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. **AGENTS WANTED.**

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

**D. F. Jones Manufacturing Co.
Limited, of Gananoque, Ont.**

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and.
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

TRADE CHECKS for Mining Companies, Etc.
DOG LICENSE CHECKS
for Municipalities.

Send for our 100-page Catalogue of Stamp Goods.

HAMILTON STAMP AND STENCIL WORKS
Hamilton, Ont.

CAUSES OF FAILURE

In the Hardware Trade and How Avoided.

As long as there are failures, subjects that furnish information how to prevent them will always be timely. We have published, in pamphlet form, three admirable papers on the above topic, in which Over-Stocking, Expense, Capital, Credit, Discounts, Buying, etc., etc., are ably discussed. We will mail the whole three essays to any address on receipt of

10 cents

HARDWARE AND METAL, Toronto

The Toronto Patent Agency

Limited

CAPITAL - \$25,000

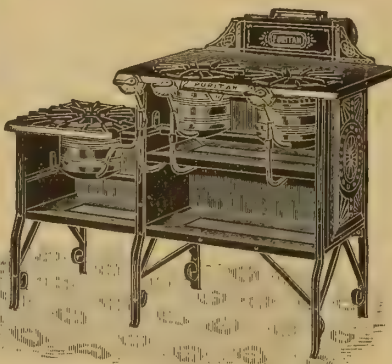
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Puritan Wickless Blue Flame.



This is the only Wickless
Blue Flame Oil Stove that
has given satisfaction. . . .

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East - - - **TORONTO.**

Syracuse Smelting Works

332 William St., Montreal, and Syracuse, N.Y.

Manufacturers of

Importers of

Dealers in

Babbitt Metal,
Columbia
Phosphor Tin,
Soldier,
Refined Spelter,
Stereo,
Lino,
Electro
and other metals.

Pig Tin,
Pig Lead,
Ingot
Copper
and all other
Raw Metals.

Drosses,
Scrap
Copper,
Scrap Brass
and all other
Old Metals.

A Post Card will bring all information as to prices.

HEATING AND PLUMBING

SANITATION OF TORONTO SCHOOLS

THE annual report of Dr. Sheard, medical health officer, Toronto, contains some interesting figures and deductions regarding the sanitation of the public and separate schools of Toronto. He gives in detail figures showing the average attendance at the various public and separate schools in the city, cases of infectious diseases in each, systems of heating adopted. The summary of results shows that in the public schools the general percentage of cases was 6.35, while in the separate schools it was 2.44, showing that the separate schools are much healthier than the public. This, he states, cannot be resolved by reference to peculiar modes of heating, as in all systems the public schools show higher percentages of disease.

The figures relating to public schools, however, show that there has been much less infectious disease in schools with steam-heating than in those in which the Smead-Dowd system is operated, or even in those which are heated by stoves. The separate school records do not afford a means of making a similar comparison, as nearly half the schools are heated by coal stoves, part of the balance by ordinary hot-air furnaces, and in the remainder the heating is of a mixed character, being partly by the Smead-Dowd system, hot water and coal stoves.

The summary shows that by placing side by side the figures relating to the outside privies of the separate schools with the outside latrines of the public schools—the proportional percentages are respectively as 1.33 : 5.91. Less in degree, but similar, are the figures relating to separately ventilated closets, being 2.46 for separate and 4.54 for public schools.

A good opportunity is given in this summary for a comparison of the various kinds of closets in the public schools. The result of the comparison is that outside closets, or those with separate ventilation, are much preferable to either those of the wet or dry systems, in which there is a possibility of the ventilation being complicated with that of the school generally. The highest percentage of infectious diseases was 7.31 in public schools where the Smead-Dowd system was used, and the lowest was 1.33 in separate schools with outside privy pits.

This result is, Dr. Sheard states, certainly somewhat of a reflection on the so-called modern sanitation, and shows that unless both principles and appliances are perfect the old-fashioned notion of keeping fecal

matter outside and as far away from the house as possible is practically safer than storing it within doors, and trying to minimize its dangers by desiccation, disinfection or ventilation.

UTILITY AND ART IN PLUMBERS' WORK.

In the course of a recent address, Professor Geo. Aitchison, R.A., president of the Royal Institute of British Architects, referring to plumbing and plumbers, contended that the principal thing we require is to have men who can be trusted to wipe joints so that they are airtight, and make other junctions airtight too. By this means, we have prevented a great many of the diseases that faulty pipes and junctions cause, and have, besides, improved the health of those persons who would otherwise have their health lowered by the exhalations from faulty pipes; and, besides these advantages, the men have learned to execute ordinary plumbers' work much better. We could not, he said, be too careful of our health, for, without that, life becomes a burden; but, at the same time, we must consider that "man does not live by bread alone."

Nature spreads out before us all the beauties of the sky, the earth and the ocean for man's instruction, delight and solace, and the plumbers were of yore as skilful in embodying the beauties of nature they had admired as the other craftsmen in the building trades—in fact, when he was a boy, the plumber's shop window was one of his greatest delights, for in it were beautifully ornamented cisterns, lead vases, lead statues, and ornamental lead plaques for dates and inscriptions, not to speak of the quaint, if not beautiful, rain-water pipes and heads. All this had departed; and certainly every architect and every person of taste is anxious to see it revived. Some of the walks in Hampton Court Gardens are still adorned with leaden statues and leaden vases; and when he was a boy the gardens of the great merchants in the city were adorned in the same manner, and very often with lead fountains too.

In the Middle Ages and in the early renaissance considerable portions of buildings then erected were ornamented with leaden crestings on the roof; there were lead tops to pinacles, and lead sockets to weathercocks, and the leadwork to the lights were made in beautiful or curious patterns. He did not know why all these charming applications of design should be

utterly laid aside and forgotten for more utilitarian objects. The exercise of the artistic part of the craft must surely give more pleasure and pride to the craftsman than the mere wiping of a joint or the beating out of a cesspool, however well done, besides the interest and pleasure that it causes to the public.

PLUMBING AND HEATING NOTES.

The Diamond Light and Heating Co. of Canada, Limited, Montreal, is applying for incorporation.

The Eclipse Acetylene Gas Co., Montreal, intends to apply for incorporation.

L. Girard & Co., plumbers, Montreal, have compromised at 20c. on the dollar.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to The Brown Bros., Limited, for a five-storey brick and terra-cotta factory on Wellington street, near Bay, to cost \$40,000; to F. B. Poucher, for four two-storey and attic semi-detached brick dwellings on the north side corner of Duke and Parliament streets, to cost \$8,000; to Dr. Garrett, for a three-storey brick store at the corner of Terauley and College streets, to cost \$4,000; to The Toronto Type Foundry Co., Limited, for a five-storey brick factory at 68 to 72 York street, to cost \$20,000; to the Henry Kent estate, for a five-storey brick warehouse at 14 to 16 Front street east, to cost \$20,000; to Kingsmill & Co., for a one-storey and attic brick addition to 100 Yorkville avenue, to cost \$1,500; to Geo. C. Watson, for a two-storey and attic residence, near Queen street, on Jamieson avenue, to cost \$3,000; to Ambrose Kent, for a two-storey and attic brick residence near Walmer road, on west side Lowther avenue, to cost \$6,000; to Mrs. Ida S. Wardell, for a two-storey and attic brick residence at 191 Bloor street, to cost \$5,800; to R. C. Clute, for a two-storey and attic detached brick dwelling at 192 Bloor street west, to cost \$6,000, and for alterations to 194 Bloor street west, to cost \$3,000; to L. G. Christie, for a pair of semi-detached brick residences at 9 and 11 Classic avenue, to cost \$5,000; to B. and H. B. Kent, for a two-storey brick addition to 144 Yonge street, to cost \$3,000; to C. A. Dimick, for a pair of semi-detached, two-storey and attic brick houses near Bernard avenue, on the east side of Bedford avenue, to cost \$7,000; to John Patterson, for a new factory at 206 Queen street west, to cost \$15,000; to Dickson & Eddy, for a

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

HE USES

Heintz Traps.

They save his steam,
his fuel, his money, and
are so effective

For Steam Heating or Power Plants.

The Jas. Morrison Brass Mfg. Co.
Toronto. Limited
Engineers' and Plumbers' Supplies.



Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris
BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon



The

CARPENTER GRASS HOOK.

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

Standard Steel Toe Calks

Sizes of
Blunt :



WRITE
FOR
DISCOUNTS.



Sizes of
Sharp
Calks
below for
Fall of 1899 :

NO.	LENGTH.	SIZE.
0.....	1½ inch.....	3/8 x 5/16
1.....	1½ ".....	1/2 x 5/16
2.....	1¾ ".....	9/16 x 3/8
3.....	2 ".....	5/8 x 3/8

Price, \$1.25 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

NO.	LENGTH.	SIZE.
4.....	2¼ inch.....	3/4 x 3/8
5.....	2½ ".....	3/4 x 3/8
6.....	2¾ ".....	7/8 x 7/16
7.....	3 ".....	7/8 x 7/16

NO.	LENGTH.	SIZE.
0.....	1½ inch.....	9/16 x 3/8
1.....	1¾ ".....	9/16 x 3/8
2.....	2 ".....	11/16 x 7/16
3.....	2¼ ".....	3/4 x 1/2

Price, \$1 50 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

JAMES PENDER & CO., Limited, Sole Mfrs. Saint John, N. B., Canada.

Ride Good Tires



Samson
New York
C. R. Co.

Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

two-storey coal shed, covered with iron, at the foot of Church street, to cost \$1,400; to W. G. Kendrick, for a one storey and attic summer cottage on Centre Island, to cost \$700; to the York County Loan and Savings Co., for four detached, two-storey and attic brick dwellings at 171 to 177 Macdonell avenue, to cost \$7,200; to Wm. Blachford, for a two-storey and attic brick residence at 308 Ontario street, to cost \$3,000; to Thos. Watson, for a two-storey and attic dwelling on the south-east corner of Clarke and Grant streets, to cost \$1,200.

LIGHTING COUNTRY HOUSES.

IN lighting a country house, the first question concerns the provision to be made for the generating plant, and where it shall be put. The various developed methods at disposal are: 1, steam-engine; 2, oil-engine; 3, gas-engine; 4, water-wheel or turbine, 5, wind-engine; 6, primary battery. The advantages and disadvantages of each method were fully considered in the course of a very suggestive paper, entitled "Some Practical Hints on the Production and Use of Electricity for Lighting Country Houses," recently read by Mr. Bernard M. Drake before the Royal Institute of British Architects. The earlier part of the paper had relation to means for generating the current, accumulators, and so on, which, probably, would not be of so much interest to our readers as that portion relating to fittings and their arrangement. In discussing the lighting of rooms the author emphasized the necessity of having light and dark portions and, as it were, semi-tones. A room lit equally throughout gives a flat effect, and is neither artistic nor restful. A bright light causes an involuntary contraction of the pupil of the eye, and causes a tired feeling which may ultimately result in eye troubles. The ignorance of electricians concerning this simple fact is probably responsible for the complications ascribed by oculists to the electric light itself.

The secret of a restful light is the illumination of a large surface with an absence of any dazzling spots of small area. In a room thus lit the pupil of the eye expands to its full limit, and the weakest eyes can read with comfort. To get this result either the rays must be diffused by transmitting them through a large shade, or reflection must be resorted to, and the direct rays be projected on the walls and ceiling from some hidden source. The illuminated surface is then greater than that of even the largest shades, and the effect more restful. This treatment, in the case of light-coloured walls and ceiling, is capable of wide adaptation.

A combined shelf and picture rail containing a row of hidden lamps for reflected

light, had been employed by the author, and pretty effects could also be produced with small lamps concealed in the over-mantel and in china cabinets. Coming to the question of fittings in old houses, the existing candle fittings have often to be adopted, as being in accordance with the style of the room. As regards the objection that imitation candles are inartistic, it must be remembered that the designer had the candle in view as the basis of his outline, and without it the proportions are wrong and the drip cups and other parts meaningless.

An incandescent lamp springing direct from a candle socket is a squat abortion that has nothing to commend it. In these cases every effort should be made to get the precise effect of candles without their disadvantages, and, as far as possible, to conceal the fact that electric light has been employed. Examples were shown of the way in which old fittings may be treated without detriment to their appearance, and attention was called to the economy of shading only the front of lamps placed against a wall, for thus the full advantage of reflection is obtained, and an 8 candle-power lamp will take the place of a 16 candle-power if totally enclosed. There were also shown a few typical fittings made expressly for electric light.

Having touched upon the fittest materials for shades, the colors of which should be tested before making a selection; the objections to working the lamps into plaster work in the ceilings, instead of using metal fittings; the precautions to be taken to avoid risk of fire from the heated lamps, the author concluded with some hints on the treatment of the different rooms, passages and staircases. In adapting candle fittings to a dining-room table the wires are distributed by a patent connector lying under the table centre, and neither the table nor the cloth is pierced. One of the best effects produced by the author was in the dining-room at Chatsworth, where powerful lamps were hidden in reflectors at the base of the pictures all round the room; thus pictures and ceilings were illuminated, and the rest of the room remained in repose. In drawing-rooms, which should be brilliantly lighted, the author preferred to light principally from the walls and from standards, as a top light is unbecoming to ladies, causing dark shadows under the eyes. In picture lighting, top as well as base reflectors are frequently necessary with large pictures.

HARDWARE CLERKS ORGANIZE.

A meeting of the hardware clerks of this city was held yesterday morning in the K. of L. Hall, Craig street. The meeting was called by the organization committee of the

Central Trades and Labor Council, and twenty-three firms were represented. After the objects for which the meeting was called were stated by Mr. D. Verdon, chairman of the organization committee, the members present organized themselves into a Hardware Clerks' Protective Association, and decided to advance as far as possible the sale of union-manufactured goods, and to help their brethren of the Moulders' Union as far as such can be done in their position as salesmen. A committee was also appointed to draft a constitution and by-laws, and when the same is ready an important meeting will be held.—Star, Montreal, May 15.

HOLIDAY FOR HARDWARE CLERKS.

The hardware clerks of St John, N. B. will probably have their request for a Saturday half holiday granted, as it is understood that the petition has been signed by all dealers except one, and the members of that firm, who are considering the matter, will in all probability sign to-day.—Sun, May 10.

SEND for specimen copy of Philips' Monthly Machinery Register, containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum, all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, 6s. per annum, price per copy, 6d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon., England. Telegraphic address: "Machinery, Newport, Mon."

THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne

All England Championship Cup, value £100, also stake £100, in all £200, on 7th December, 1898, the winner fired with our shot and writes us: "You will be pleased to hear I won the All England Championship Cup. **I fired with your chilled shot.** Indeed, I would not use any other, as I know from experience it makes the best patterns and kills best."

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00, White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING
GOOD LUCK FIBRE
2 and 3 PLY READY ROOFING**

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL

McLashill, Dougall & Co
Fine Varnish & Japan
Manufacturers
Montreal
Price Lists on application

Hardwood CHARCOAL WOOD ALCOHOL

in Bulk or Sacks.

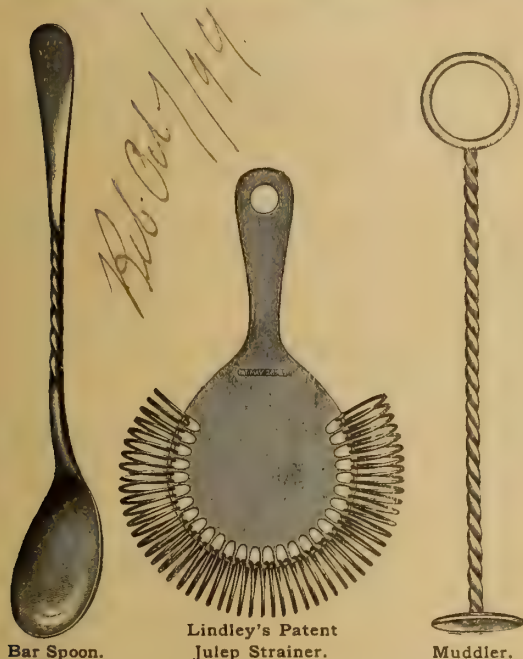
equalling Methylated Spirits as a solvent.

Manufactured only by ...

THE STANDARD CHEMICAL CO., Limited

Factories { Fenelon Falls.
Deseronto.

Gooderham Building, TORONTO



Bar Spoon.

Lindley's Patent
Julep Strainer.

Muddler.

We fully guarantee the quality of all

SILVERWARE

stamped with our name.

We make a specialty of Silverware for...

**HOTELS, CLUBS, STEAMBOATS
and DINING CAR PURPOSES.**

The TORONTO SILVER PLATE CO., Limited

Factories and Salesrooms:

King Street West, - - TORONTO, CANADA.

E. G. GOODERHAM, MANAGING DIRECTOR.

Henderson & Potts

NOVA SCOTIA PAINT AND VARNISH WORKS.

MANUFACTURERS OF

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty, Dry Colors,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., **MONTREAL**



NEWFOUNDLAND GUANO FIRM.

Mr. S. B. Shaddick is visiting various places in Canada in the interests of The Newfoundland Fish Industries Co., Limited, St. Johns, Nfld.

About a year ago, this company engaged in the manufacture of guano and oil from offal, a substance which formerly had been consigned to the sea. For the purpose of converting the offal into guano and extracting the oil, two factories have been erected and fully equipped; of these, one is in the south, at Bonne Bay, Hermitage Bay, and one in the north, at Snook's Arm, Notre Dame Bay. At each of these, upwards of 200 tons of offal are treated per day.

The company have also gone extensively into the herring business, both pickling and canning, and propose exporting from 30,000 to 40,000 barrels a year, to be distributed over the Canadian, American and English markets. Cold storage is also included in the operations of the company. Mr. Shaddick states, a cold store having been erected at St. John's for the purpose of experimenting on the freezing of various kinds of fish. Herring packing is carried on all the year round, thus providing employment for many who would otherwise have been left idle during the summer months. Mr. Shaddick is now negotiating for markets in the Dominion for the company's products.

WHO WAS THE INVENTOR?

The question as to who was the inventor of the safety bicycle is about as easy to answer as if the inquirer had asked who invented the steam engine. There are many claimants, and the most assertive of them all is a gentleman whose name has been lately so much to the front in connection with horseless carriage finance. Another claimant is Mr. John Kemp Starley, who introduced the "Rover" safety in 1884. Certainly the "Rover" was a pioneer in the movement which has resulted in the safety taking the field (or rather the road), and it was the machine which "set the fashion to the world." Mr. Starley, too, was one of the earliest to favor the $\frac{1}{2}$ in. roller chain. This size, and also the $\frac{3}{8}$ -in., was used by Mr. Starley ten years ago. It may be interesting to note here that for several years Mr. Starley was in receipt of a royalty from Mr. Hans Renold, of Manchester, the pioneer chainmaker, for suggested improvements in roller chains.—Ironmongery.

STONEMASONS' MACHINES WANTED

Charles D. Phillips, Newport, Mon., England, writes: "Will some one kindly give me the name and address of best makes of stonemasons' machines, American makes included?"

If any of our readers can supply the desired information, will they kindly do so, either by forwarding it direct to Mr. Phillips or through **HARDWARE AND METAL**.

Best Crucible Steel.

MCCLELLAN FILES

Fully Warranted.



Sold by **CANADA HARDWARE CO., LIMITED, MONTREAL**, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO.,

Gooderham Building.

Toronto**Geo. D. Wood & Co.**

WINNIPEG, MAN.

Importers of and Dealers in

SHELF AND HEAVY

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now **complete** in seasonable lines. **Prompt** shipment.

Letter orders receive **special** attention.

ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

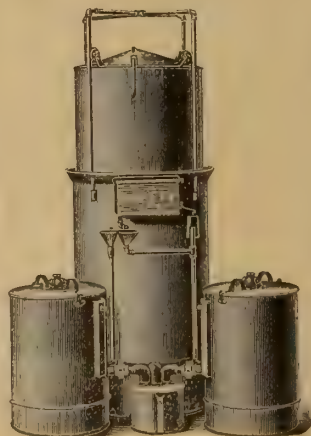
Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only **pure** gas. Never clogs the burners.

THE SAFETY LIGHT & HEAT CO.

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.

CLIFF-WARDLAW GENERATORS. Send for Booklet.



ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates, Galvanized Sheets, Imitation Russia Sheets, Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well Pumps, Casing, Tubing Fittings, Drilling Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

1879 ESTABLISHED 1879

ESSEX HANDLE and WOOD TURNING WORKS.

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Doubletrees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction. All stock air-dried, not kiln-dried. If you are going to be in it, place your order with

GARDNER BROS. & CO.**ARE YOU A BUYER of****Hardware, Metals, Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

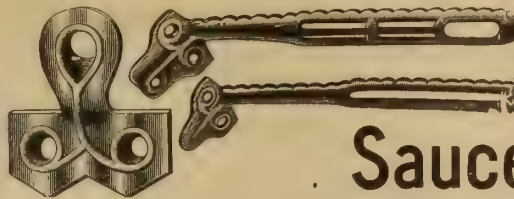
Board of Trade, MONTREAL.
26 Front St. West, TORONTO.
109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"****TIRE UPSETTERS WILL UPSET TIRES**

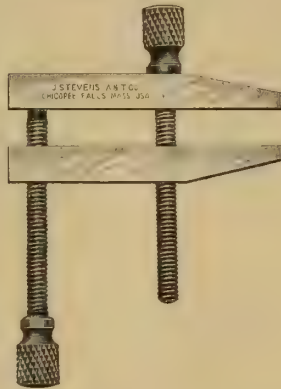
Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.

**Pail Ears**
AND**Saucepan Handles.**

Neatest designs, greatest strength and finest finish of any made. Large stock of all sizes constantly on hand and all orders filled promptly. By the gross, package or in bulk, as desired. SEND FOR CATALOGUE.

BERGER BROS. CO., Philadelphia, U.S.A.**STEVENS FINE TOOLS***We make a perfect line of***CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool Makers' Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools. It is also a valuable hand-book of information for mechanics and people interested in such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass., U.S.A.

Carried by our representatives at Toronto and Montreal.

**Healthy Wall Coatings**

for your rooms are now possible by the use of Church's Alabastine (never sold in bulk) Danger lurks in Kalsomines which decay and in wall papers which contain poisonous coloring matter, but Alabastine is sanitary to the highest degree. It is permanent—it will not peel or scale from the hardest surface, and you can't rub it off. And, too, it is easily applied with cold water and a brush. 16 beautiful tints and White. "The healthful wall coating."

Alabastine

For sale by paint dealers everywhere

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co., Limited, Paris, Ont.**HUTCHISON, SHURLY & DERRETT****DOVERCOURT
TWINE MILLS.****1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared to furnish the best made goods in the market at closest prices and make prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.**

THOS. GOLDSWORTHY & SONS

MANCHESTER, ENGLAND.

EMERY

Cloth Corn Flour

We carry all numbers of Corn and Flour Emery in 10-pound packages, from 8 to 140, in stock. Emery Cloth, Nos. OO., O., F., FF., 1 to 3.

JAMES HUTTON & CO., Wholesale Agents for Canada, **Montreal.**

CURRENT MARKET QUOTATIONS.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—		
56 and 28 lb. ingots, per lb.	0 29	
Straits	0 28½	

Tinplates.

Charcoal Plates—Bright.		
M.L.S., equal to Bradley.	Per box.	
I.C., usual sizes	\$5 50	
I.X., "	6 75	
I.X.X., "	8 00	
R. & Co.—		
I.C.	4 75	5 00
I.X.	6 00	6 25
I.X.X.	7 25	7 50

Famous—		
I.C.	5 00	
I.X.	6 25	
I.X.X.	7 50	
Raven & Vulture Grades—		
I.C., usual sizes	4 00	
I.X.	4 75	
I.X.X.	5 50	
I.X.X.X.	6 25	
D.C., 12½x17	3 50	
D.X.	4 25	
D.X.X.	6 25	

NOTE.—Other brands might be shaded by 25c per box.		
Coke Plates—Bright.		
Beesmer Steel—		
I.C., usual sizes	3 40	
I.C., special sizes, base.	3 50	
20x28.	7 00	
Charcoal Plates—Terne.		
Dean or J. G. Grade—		
I.C., 20x28, 112 sheets	6 75	
I.X., Terne Tin	8 25	
I.C., Orion		
I.X., Orion		

Charcoal Tin Boiler Plates.		
Cookley Grade—		
X.X., 14x56, 50 sheet bxs		
" 14x60	0 05½	0 06
" 14x65		

Tinned Sheets.		
72x30 up to 24 gauge.	0 06	0 06¾
" 26	0 06¾	0 07
" 28	0 07½	0 07¾

Iron and Steel.

Common Bar, per 100 lbs	1 70	1 75
Refined	2 20	
Horse Shoe	1 85	1 90
Hoop steel, 1½ to 3 in. base.		
Extras for smaller sizes	2 60	
Swedish	4 00	4 25
Sleigh Shoe Steel " base	2 50	
Tire Steel	2 50	
Machinery	2 65	
Cast Steel, per lb	0 10	0 14
Toe Calk Steel	2 95	
Tos Weight Steel	6 10	
Thos. Firth & Sons' Cast Steel	0 12	0 14
Russian Sheet, per lb	0 10½	0 11
Tank Plates, 1-5 and thicker.	2 00	2 25
Boiler Rivets	4 50	5 00

Boiler Tubes.

1½-inch	0 11	
2	0 12	
2½	0 14	

Steel Boiler Plate.

¾ inch	3 25	
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3-16 inch	3 40	
¾ inch and thicker.	3 25	

Black Sheets.

18 gauge	2 40	
20	2 50	
22 to 24	2 55	
26	2 65	
28	2 85	

Canada Plates.

All dull, 52 sheets	2 50	
Half polished	2 60	
All bright	3 10	

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,		
\$3.10; ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch,		
\$4.85; 1½ inch, \$6.50; 2 inch, \$8.00; 2 inch,		
\$11.00. 2½ to 6 inch, discount 60 p.c.		
Galvanized, ¾ inch to ½ inch, \$5.75; ¾		
inch, \$7.00; 1 inch, \$9.85; 1½ inch, \$14.00;		
1½ inch, \$17.00; 2 inch, \$24.50.		

Galvanized Iron.

G.C. Comet.	Amer.	Head.
16 gauge	3 85	4 00
18 to 24 gauge	4 00	4 25
26	4 25	4 50
28	4 50	4 75
Less than case lots, 25c. per 100 lb. additional		

Chain.

Proof Coil, 3-16 in., per 100 lbs		
" ¼ "	6 90	
" 5-16 "	4 40	
" ¾ "	4 00	
" 7-16 "	3 80	
" ½ "	2 75	
" 5/8 "	3 55	
" ¾ "	3 45	
Trace, per doz. pairs.	3 60	5 90
Jack chain, iron, single, per		
doz. yards.	0 13	0 50
Jack chain, double, per doz.		
yards	0 15	
Jack chain, brass, single, per		
doz. yards.	20	10

Copper.

Ingot.		
English B. S., ton lots	0 19	0 19½
Lake Superior.		
Bolt or Bar.		
Cut lengths, round, ½ to ¾ in.	0 23	0 24
" round and square		
1 to 2 inches.	0 23	0 24

Sheet.

Untinned, 14 oz., and light, 16		
oz., 14x48 and 14x60	0 23	0 23½
Untinned, 14 oz., and light, 16		
oz., irregular sizes.	0 23	0 23½
NOTE.—Extra for tinning, 2 cents per		
pound, and tinning and half planishing 3		
cents per pound.		
Tinned copper sheets	0 26	
Planished	0 32	

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25	
" 35 to 45 "	0 24	
" 50-lb. and above, "	0 23	

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28	
Spun, per lb.	0 32	

Brass.

Roll and Sheet, 14 to 30 gauge, net list.		
Sheets, hard-rolled, 2x4	0 24	0 2
Tubing, base, per lb.	0 24	0 25

Zinc Spelter

Foreign, per lb	0 07½	0 07¾
Domestic "		

Zinc Sheet.

cwt. casks	0 08½	
Part casks.	0 08½	
Lead.		
Imported Pig, per lb	0 04½	0 04½
Domestic, per lb		
Bar, 1 lb.	0 05	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05	0 05½
Sheets, 3 to 6 lbs., per sq. ft.,		
by roll.	0 04½	0 05
NOTE.—Cut sheets ¾ cent per lb. extra		
Pipe, by the roll, usual weights per yard, lists		
at 7 cents per lb. and 17½ per cent. discount		
NOTE.—Cut lengths, net price, waste pipe		
8-ft. lengths, lists at 7½ cents.		

Shot.

Net list; no discount.		
Soil Pipe.		
Discount, 60 per cent.		

Solder.

	Per lb.	Per lb.
Bar half-and-half	0 17	0 18½
Refined	0 16½	0 17½
Wiping	0 16	0 17

NOTE.—Prices of this grade according to quantity. The prices of other qualities of solder in the market indicated by private orders vary according to composition.

Antimony.

Cookson's, per lb	0 11	0 11½
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White Lead.

Per cwt.	
Pure, Assoc. guarantee, ground in oil,	
25 lb. irons	6 12½
No. 1 do	5 74½
No. 2 do	5 37½
No. 3 do	5 00
No. 4 do	4 62½
Robertson's Chemically Pure	6 12½
Munro's Select Flake White	6 37½
Elephant and Decorators' Pure	6 12½
Brandram's B. B. Genuine	8 12½
Jame genuine	7 25
No. 1	7 20
No. 2	6 75

White Zinc Paint.

Elephant Snow White	0 08	
Pure White Zinc	0 08	
No. 1	0 06	
No. 2	0 05	

Dry White Lead.

Pure, casks	0 04½	
Pure, kegs	0 04½	
No. 1, casks	0 04½	
No. 1, kegs	0 04½	

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)		
Pure, per gallon	1 00	
Second qualities, per gallon	0 90	
Barn (in bbls.)	0 70	
The Sherwin-Williams Paints	1 20	
Canada Paint Co's Pure	1 00	
Robertson's Pure	1 00	

Colors in Oil.

(25 lb. tins, Standard Quality.)		
Venetian Red, per lb	0 07	
Chrome Yellow	0 06	
Golden Ochre	0 05	
French	0 09	
Marine Blue	0 09	
" Green	0 09	
Chrome	0 08	
French Imperial Green	0 19	

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	1 35	1 40
cwt		
Yellow Ochre (J.F.L.S.), bbls.		
per cwt	2 75	
Yellow Ochre (Royal), per		
cwt	1 10	1 15
Brussels Ochre	2 00	
Venetian Red (best), per cwt.	1 80	1 90
English Oxides, per cwt.	3 00	3 25
American Oxides, per cwt.	1 75	1 90

Canadian Oxides, per cwt.	1 75	1 90
Burnt Sienna, pure, per lb.		0 10
" Umber, "		0 10
" do aw		0 09
Drop Black, pure		0 09
Chrome Yellows, pure		0 18
Chrome Greens, pure, per lb.		0 12
Golden Ochre		0 03½
Ultra marine Blue in 28-lb.		
boxes, per lb.	0 08	0 24
Fire Proof Mineral, per 100 lb.		1 00
Genuine Eng. Litharge, per lb		0 07
Mortar Color, per 100 lb.		1 25
James' Gen. Red Lead, 100 lb		0 04½
Pure Indian Red, No. 45, lb.		0 08
Whiting, per 100 lb.		0 50

Paris Green.

250 lb. casks	0 13½	
50 lb. drums	0 14	
1 lb. packages	0 15	
½ lb.	0 16½	
1-lb. tins.	0 15½	

Sulphate of Copper.

Casks, for spraying, per lb.	0 06	
100-lb. lots, do. per lb.	0 07	

Putty.

Bladders in bbls.	1 80	
Bladders in 100 or 200 lb. kegs or bxs	1 95	
Bulk in bbls., per 100	1 65	
Bulk in less quantities	1 80	
25-lb. tins, 4 in case	2 05	
12½-lb. tins, 8 in case	2 30	
Quotations f.o.b. Toronto—10c. per 100 lbs.		
extra Hamilton, London, Guelph. For quantities less than 100-lbs., 2½c. per lb.		

Varnishes.

(In bbls.)	per gal
Carriage, No. 1	0 90
Extra do.	1 02
Body Varnish	4 00
Furniture Varnish	0 45
Extra do.	0 80
Demar Varnish	1 40
Hard Oil Finish	1 10
Orange Shellac Varnish	1 90
White Shellac	2 00
Rubbing Varnish	2 40
Brown Japan	0 70
Elastic Oak	0 90

Linseed Oil.

Raw, per gal. net	0 52	
Boiled, per gal. net	0 55	
Outside points 1c. more than above figures		

Turpentine.

1 to 4 barrels, net.	65	
Outside points 1c. more		

Castor Oil.

In cases, per lb	0 10½	
Small lots.	0 11½	

Cod Oil, Etc.

Cod Oil, per gal.	0 50	0 55
Pure Olive	1 20	
" Neatsfoot	90	

Glue.

(In bbls.)		
Common	0 08½	0 09
French Medal	0 12	0 12½
Cabinet, sheet	0 11	0 12
White, extra	0 16	0 18
Gelatine	0 22	0 30
Strip	0 16	0 18
Coopers	0 19	0 20
Al clear		0 09

HARDWARE.

Ammunition.

Cartridges.		
R. B. Caps. Dom., 50 and 5 per cent.		
Rim Fire Pistol, dis. 45 p. c., Amer.		
Rim Fire Cartridges, Dom., 50 and 5 p. c.		
Rim Fire, Military, net list, Amer.		
Central Fire Pistol and Rifle, 18 p. c. Amer		

SHAFTING HANGERS PULLEYS

We manufacture and carry in stock ready for prompt shipment, a full line of Shafting, Hangers and Pulleys

Especially suited for Creamery and Dairy Work.

Up-to-date goods. Correct prices.
Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office: 74 York St., TORONTO, ONT.

Central Fire Cartridges pistol sizes, Dom. 30 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer. net list. B.B. Caps, discount 45 per cent. Amer.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent.
Primers, Dom., 30 per cent.
Wads.

Best thick white felt wadding, in 1/2-lb bags, 1 00
Best thick brown or grey felt wads, in 1/2 lb. bags, 0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 99
Best thick white card wads, in boxes of 500 each, 10 gauge, 0 35
Best thick white card wads, in boxes of 500 each, 8 gauge, 0 55
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges, 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge, 0 25
Thin card wads in boxes of 1,000 each 8 gauge
Chemically prepared black edge grey cloth wads, in boxes of 250 each—
11 and smaller gauge Per M 0 60
9 and 10 gauges 0 70
7 and 8 gauges 0 90
5 and 6 gauges 1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—
11 and smaller gauge 1 15
9 and 10 gauges 1 40
7 and 8 gauges 1 65
5 and 6 gauges 1 90

Adzes.
Discount, 33 1/2 per cent.

Anvils.
Per lb. 0 10 0 12 1/2
Anvil and Vice combined, each, 4 50
Wilkinson & Co.'s Anvils, lb. 09 0 09 1/2
Wilkinson & Co.'s Vices, lb. 09 1/2 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised list.
Hollow Stearn's, per dozen 13 00 20 00
Adjustable Stearn's, each 4 50 6 50
Post-hole, Vaughan's, each 60 90

AXES.
Splitting Axes, 5 25 5 50
Chopping Axes—
Single List, per doz. 6 00 12 00
Double List, " 11 00 18 00
Bench Axes, 40 and 15 p.c.
Broad Axes, 33 1/2 per cent.

Bath Tubs.
Zinc, discount, 3 90 4 00
Copper, discount, 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised list
Boxing extra

Anti-Friction Metal.
"Tandem" A, per lb. 0 23
" B, " 0 19
" C, " 0 11 1/2
" Monarch " 1, " 0 21 1/2
" 2, " 0 15
" 3, " 0 10
" Canadian " 0 08 1/2
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal, " 0 15
Mystic Metal, " 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.

Door.
Gongs Sargent's, 5 50 8 00
Peterboro', discount 50 per cent.

Cow.
American make, discount 66 2/3 per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each 1 25 3 00

House.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders', per doz. 7 50 10 00
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford Common, 70 to 70 and 10 per cent.
" Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47 1/2 to 50 per cent.
Expansive.
Clark's 40 per cent.

Gimlet.
Clark's, per doz. 0 65 0 90
Diamond, Shell, per doz. 1 00 1 50
Nail and Spike per gross 2 25 5 20

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 00

Blind and Bed Staples.
All sizes, per lb. 7 1/2 0 12

Bolts and Nuts.
Norway Bolts, full square 70
Common Carriage Bolts, 5-16 & under, 60
" " " " and larger 55
" " " " full square 70
Machine Bolts, all sizes 60
Coach Screws 75
Sleigh Shoe Bolts 75
Blank Bolts 60
Bolt Ends 65
Nuts, square 4 1/2 p.c.
Nuts, hexagon 5 c.
Tapping Nuts 70
Tire Bolts 65 and 10
Stove Bol's. 65 and 10

Boot Calks.
Small and medium, per M. 4 50
Small heel, per M. 4 25

Broilers.
Light, dis. 65 to 67 1/2 per cent.
Reversible, dis. 65 to 67 1/2 per cent.
Vegetable, per doz., dis. 37 1/2 per cent.
Henis, No. 8, " 6 00
Henis, No. 9, " 7 00
Queen City " 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 00 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll 0 30
Tarred lining, per roll 0 40
Tarred roofing, per 100 lb 1 45
Coal Tar, per barrel 3 75
Pitch, per 100-lb 0 60
Carpet felt, per 100 lb 2 10

Rail Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in.

Butts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.
Cast Iron
Loose Pin, dis. 60 to 60 and 10 per cent.

Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pins, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70, 70 and 5 per cent.
Gen. Bronzed, per pair 0 40 0 65

Cards.
Horse per doz. 0 60 1 00

Carpet Sweepers.
Bissell, per doz. 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz. 29 00
Grand Rapids, " 24 00 33 00

Carpet Stretchers.
American, per doz. 1 00 1 50
Bullards, per doz. 6 50

Castors.
Bed, new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
Nos 31 and 32, per gross. 8 50 9 50

Cement.
Canadian Portland, 2 65 2 90
English " 2 80 3 00
Belgium " 2 50
Canadian hydraulic 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters Colored, per gross 0 45 0 75
White lump, per cwt 0 60 0 65
Red " 0 05 0 06
Crayon, per gross 0 14 0 18

Chisels.
Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warnock's, dis. 40 and 10 per cent.

Churns.
Revolving Churns, metal frames—No. 0, \$3; No. 1, \$3.20—No. 2, \$3.40—No. 3, \$3.75—No. 4, \$4.50—No. 5, \$5.90 each. Ditto, wood frames—15c. each less than above. Terms 4 months or 3 p.c. off 30 days, f.o.b.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain 3 75
" embossed 4 00
Connections 1 10

Compasses, Dividers, Etc.
American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent from factory.

Dies.
Hart Mfg. Co. (pipe es), (Amer. list), dis. 40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis. per cent.

Door Springs.
Torrey's Rod, per doz. (15 p.c. 2 00
Coil, per doz. 0 88 1 60
English per doz. 2 00 4 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast
Millar Falls, per doz. net list.

DRILL BITS.
Morse, dis. 37 1/2 to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz. 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10 70 per cent.

Black Diamond, 50 and 10 to 60 per cent
Kearney & Foote, 60 and 10 per cent. to 60, 10, 10.
Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 25 to 27 1/2 per cent.
Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis., 60 and 10 to 60, and 5 p.c. revised list.

FREEZERS.
Ice Cream.
White Mountain, 1 to 25 qt. 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67 1/2 per cent.

FRUIT PRESSES.
Henis', per doz. 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each. 1 65 2 40
GLASS.
Window.
Box Price.

Size United Inches.	Star		Double Diamond	
	Per 50 ft.	Per 100 ft.	Per 50 ft.	Per 100 ft.
Under 28.....	2 00	3 75	3 20	6 00
28 to 40.....	2 15	4 45	3 40	6 65
41 to 50.....	4 50	.....	7 00	.....
51 to 60.....	4 75	.....	8 55	.....
61 to 70.....	5 10	.....	9 10	.....
71 to 80.....	5 50	.....	10 00	.....
81 to 85.....	6 10	.....	11 50	.....
86 to 90.....	7 25	.....	13 50	.....
91 to 95.....	.....	.....	15 10	.....
96 to 100.....	.....	.....	18 00	.....
101 to 105.....	.....	.....	20 50	.....
106 to 110.....	.....	.....	23 50	.....

HALTERS.
Rope, 3/8 per gross 8 25 8 55
" 1/2 " 9 25 9 50
" 5/8 " 11 00 11 20
Leather, 1 in., per doz. 3 87 1/2 4 10
" 1 1/4 in., " 5 15 5 20
Web, — per doz. 1 87 2 45

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27 1/2 per cent.

Tack.
Magnetic per doz. 1 10 20

Sledge.
Canadian, per lb. 0 07 1/2 8 1/2

Ball Pean.
English and Can., per lb. 0 22 25

HANDLES.
Axe, per doz., net, 1 50 2 60
Store door, per doz. 1 10 1 50
Chest, per doz. pairs. 0 40 2 50

Fork.
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz. 1 00 25

Plane.
American per gross. 3 1

Hammer and Hatchet.
Canadian, 45 per cent.

Cross-Cut Saw.
Canadian, per pair 0 13 1/2 0 20

HANGERS.
Door, 4 and 5 inch, per pair. 0 40 50
Lanes, 6 1/2 per cent.

HARVEST TOOLS.
Discount, 60, 10 and 5 per cent.

HATCHETS.
Canadian, dis. 40 to 42 1/2 per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb. 0 05
" " 6-in., " 0 14 1/2
" " 8-in., " 0 04 1/2
" " 10-in., " 0 04

Screw hook and hinge—
6 to 12 in., per 100 lbs. 3 75
14 in. up, per 100 lbs. 3 00
Per gro. pair 8 50

HOES.
Garden, Mortar, etc. dis. 60, 10 and 5 p.c.
Planter, per doz. 4 00

HOOKS.			NETTING.			SASH WEIGHTS.			Zinc tacks.			30											
Cast Iron.			Poultry, 50 and 5 per cent. for McMullen's.			Sectional, per 100 lbs.			Leather carpet tacks.			50											
Bird Cage, per doz.			0 50	1 10	OIL.			Solid,	Copper tacks.			50											
Clothes Line, per doz.			0 27	0 63	Canada refined (Toronto)....			0 13½	Copper nails.			52½											
Harness, per doz.			0 72	0 88	Sarnia Water White.....			0 15	Trunk nails, black and tinned....			70 and 12½											
Hat and Coat, per gross.			1 00	3 00	Prime Water.....			0 14	Clout nails, blued and tinned....			70 and 10											
Chandelier, per doz.			0 50	1 00	American w. w.....			0 16½	Chair nails.			40											
Wrought Iron.			Pratt's Astral.....			0 18	S. & D., 40 per cent.			Ogar box nails.			40										
Wrought Hooks and Staples, Can., dis. 47½ per cent.			McClary's Model galvan. oil can, with pump, 5 gal., per doz.			0 00	10 00	Crosscut, Diaston's, per ft....			0 35	0 55											
Wire.			Zinc and tin, dis. 50, 50 and 10.			1 25	3 50	S. & D., dis. 35 p.c. on Nos. 2 and 3.			0 75	2 75											
Hat and Coat, discount 60 per cent.			Copper, per doz.			1 25	3 50	Hack, complete, each.			0 75	0 75											
Belt, per 1,000.			0 60	0 70	Malleable, dis. 25 per cent.			frame only.			SAW SETS.												
Screw, bright, dis. 65 and 10 per cent.			Brass.			1 50	3 50	"Lincoln," per doz.			5 50	6 00											
HORSE NAILS.			Oval head.			Gurney Scales, 50 p.c.			SCALES.			B. S. & M. Scales, 50 p.c.											
"C" brand 50 p.c. dis.			} "M" brand 50 p.c. "P. B." dis. 50 p.c.			Champion, 60 per cent.			Fairbanks Standard, 45 p.c.			Dominion, 60 p.c.											
Acadian, 50 and 20 p.c., countersunk head.						Richelieu, 60 p.c.			Chatillon Spring Balances, 75 p.c.			SCREENS.											
Iron Shoes.						Door patent per doz.			6 00	12 00	Windw, per doz.			2 00	3 00								
F.O.B. Toronto.			No. 2 No. 1.			No. 12			No. 14			No. 16											
and larger.			and smaller.			Flaring pattern, No. 11.			No. 12			No. 13											
Light, medium, and heavy.			3 50	3 75	No. 14			3 30	Sargent's, per doz.			0 65	1 00										
Snow shoes.			3 75	4 00	PICKS.			6 00	9 00	SCREWS.			Wood, F. H., iron, and steel, 82½ and 5 p.c.										
Steel Shoes.			3 75	4 00	PICTURE NAILS.			Porcelain head, per gross....	1 40	3 00	Wood R. H., " dis. 75 and 5 p.c.												
Light			5 00	5 00	Brass head,			0 40	1 00	Wood R. H., " dis. 67½ and 5 p.c.													
ICE PICKS.			3 03	3 25	PLANES.			Wood, bench, Canadian dis. 55 per cent.	American dis. 55.														
KETTLES.			Brass spun, 7½ p.c. dis. off new list.			Wood, fancy Canadian or American, 37½ to 40 per cent.			Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.														
Copper, per lb.			0 30	0 35	Miscellaneous, dis. 25 to 27½ per cent.			Bailey's Victor, 25 per cent.			PLANE IRONS.												
American, 60 and 10 to 65 and 5 p.c.			KEYS.			English, per doz.			2 00	5 00	Button's Genuine, per doz pairs, dis. 37½												
Lock, Can., dis., 50 p.c.			Cabinet, trunk, and padlock, m. per gross.			60	Button's Imitation, per doz.			5 00	9 00	German, per doz.											
KNOBS.			Door, japanned and N.P., per doz.			0 90	German, per doz.			0 63	2 60	PULLEYS.											
Bronze, Berlin, per doz.			2 75	3 25	Bronze Genuine, per doz.			6 00	9 00	Hothouse, per doz.			0 55	1 00									
Snutter, porcelain, F. & L. screw, per gross.			1 30	4 00	KNIVES.			Clau s bread, cake, and paring knives, \$7 00 doz. sets net. to 10 per cent.			Christie, bread, cake and paring knives, \$7 00 doz. sets, with 10 p.c. off.												
Hay knives, spear point, L. or T handle, 60 and 5 per cent.			Lightning, per doz.			6 50	8 40	Health's, \$7.75 net.			LANTERNS.												
Cold Blast, per doz.			7 00	LEMON SQUEEZERS.			Porcelain lined,			2 2½	5 60	Galvanized											
KING'S.			King, wood			2 75	2 91	King, glass			4 00	4 50	all glass.										
Fi-h, per gross.			1 05	2 50	LINES.			Fi-h, per gross.			1 05	2 50	Chalk										
Chalk			1 90	7 40	LOCKS.			Canadian, dis. 50 p.c.			2 00	2 20	Russell & Erwin, per doz.										
Cabinet.			Eagle, dis. 30 p.c.			Padlock.			English and Am., per doz.			50	6 00	Scandinavian.									
Eagle, dis. 15 to 17½ p.c.			MACHINE SCREWS.			Iron and Brass.			Flat head, discount 25 p.c.			Round Head, discount 20 p.c.											
MALLET.			Tinsmith's, per doz.			1 25	1 50	Carpenter's, hickory, per doz.			1 25	3 75	Lignum Vitae, per doz.										
Caulking each.			6½	2 00	MATTOCKS.			Canadian, per doz.			8 50	10 00	American, 60 and 10 p.c. off list.										
MEAT CUTTERS.			American, dis. 30 to 32½ p.c.			German, 15 per cent.			MILK CAN TRIMMINGS.			Discount, 25 and 10 per cent.											
NAILS.			Quotation are:			Cut.	Wire.	2d. and 3d.			\$2 15	\$3 55	3d.										
4 and 5 d.			2 45	2 85	6 and 7 d.			2 20	2 70	8 and 9 d.			2 15	2 65	10 and 12d.								
16 and 20d.			2 10	2 60	30, 40, 50 and 60d. (base).			2 05	2 55	Steel Cut Nails 10c. extra.			NAIL PULLERS.										
German and American.			1 85	3 50	NAIL SETS.			Square, round, and octagon, per gross.			3 38	4 00	Diamond										
Diamond			12 00	15 00	SASH CORD.			Per lb.			0 20	0 50	SASH WEIGHTS.										
Sectional, per 100 lbs.			1 40	1 75	Solid,			1 25	SAWS.			Hand, Diaston's, dis. 12½ to 15 p.c.											
S. & D., 40 per cent.			Crosscut, Diaston's, per ft....			0 35	0 55	S. & D., dis. 35 p.c. on Nos. 2 and 3.			0 75	2 75	Hack, complete, each.										
frame only.			SAW SETS.			"Lincoln," per doz.			5 50	6 00	SCALES.			Gurney Scales, 50 p.c.									
B. S. & M. Scales, 50 p.c.			Champion, 60 per cent.			Fairbanks Standard, 45 p.c.			Dominion, 60 p.c.			Richelieu, 60 p.c.			Chatillon Spring Balances, 75 p.c.								
SCREENS.			Door patent per doz.			6 00	12 00	Windw, per doz.			2 00	3 00	SCREW DRIVERS.			Sargent's, per doz.							
Screw Drivers.			Sargent's, per doz.			0 65	1 00	SCREWS.			Wood, F. H., iron, and steel, 82½ and 5 p.c.			Wood R. H., " dis. 75 and 5 p.c.									
Wood R. H., " dis. 67½ and 5 p.c.			Wood R. H., " dis. 67½ and 5 p.c.			Drive Screws, 82½ and 5 per cent.			Bench, wood, per doz.			3 25	4 00	iron,									
SCYTHES.			Discount, per doz. net.			4 50	6 00	SCYTHES.			SCYTHES.			Canadian, dis. 50 p.c.									
SHEARS.			Seymour's, dis. 50 and 10 p.c.			Heinisch, dis. 50 and 10 p.c.			Clau-s, full nickel, 50 and 10 p.c.			Japanned handles, 67½ p.c. off.			Seymour or Heinisch tailor shears. 15 p.c.								
SHOVELS AND SPADES.			Canadian, dis. 40 and 5 per cent.			SNAPS.			Harness, German, dis. 35 to 37½ p.c.			Acme			3 00	5 00	Lock, Andrews.						
SOLDERING IRONS.			2 lb., per lb.			0 30	0 33	WROUGHT SPIKES.			Discount, 35 to 40 per cent.			SQUARES.									
Iron, per doz.			1 65	2 90	Steel, dis. 70 per cent. revised list.			Try and bevel, dis. 50 to 52½ p.c.			STAPLES.			Galvanized			3 00	2 75	Bright				
STOCKS AND DIES.			American dis. 25 p.c.			STONE.			Per lb.			0 28	0 60	Washita			0 06	0 67	Hindston				
slip.			0 09	0 09	Labrador			0 13	0 13	Turkey			0 15	0 15	Arkansas			0 00	1 50	Water-of-Ayr			
Scythe,			3 50	5 00	Grind,			15 00	18 00	Stove Polish.			Enameline			Enameline			Enameline				
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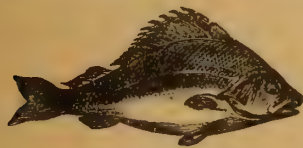


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STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
—Longfellow.

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WISH TO BUILD
an
advertisement
in the
**CONTRACT-
RECORD.**
TORONTO
will bring you
tenders from the
best contractors.

Fishing Tackle.



ALLCOCK'S STAG BRAND

goods are the best. When
you buy from us you buy
from the largest makers
and oldest house in Eng-
land. Established 1800.

The Allocock, Laight & Westwood Co., Limited
73 Bay Street, TORONTO and
REDDITCH, ENGLAND.

Exclusive Manufacturers of the Celebrated Registered
Trade Mark Stag Brand Hammocks.

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting

— and —

Fencing.

Made by

The Ontario Wire Fencing Co.

Limited

PICTON, ONT.

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

CHAS. F. CLARK, JARED CHITTENDEN,
President. Established 1849. Treasurer.

BRADSTREET'S

Capital and Surplus, \$1,500,000. Offices throughout
the civilized world. Executive Offices: Nos. 346
and 348 Broadway, New York City, U.S.A.

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for the merchants. In procuring, verifying, and promulgat-
ing information, no effort is spared, and no reasonable ex-
pense considered too great, that the results may justify its
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affairs and mercantile credit. Its offices and connections
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Toronto Office: Cor. Jordan and Melinda Sts.

THOS. C. IRVING, Superintendent.

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members, society, etc., and we are prepared to
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time.

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Buy the Best.



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Sash Cord.

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AUTOMATIC
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NEW Automatic shell extracting,
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Weights 12 oz. Rebounding lock. 32
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Made with shorter barrel for bicycle
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The most perfect small pistol made.



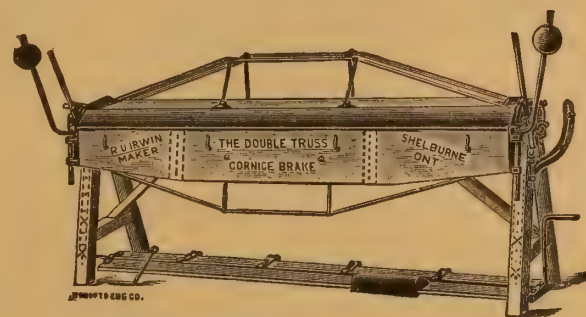
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Manufacturers of
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This eight-foot Brake bends 22-gauge iron
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Price, \$50

Very handy beader attachment, \$10 extra,
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REVOLVING

BARREL CHURN.

60,000 sold in Canada.

Angle Steel Stand.

Bicycle Ball Bearings and Patent Lever.

New features for 1899.

Churning made so easy you read while you
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Est. 1863

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Awarded
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Special Prize

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"Maltese Cross" Inner Tubes

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The Toronto Rubber Co.

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MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, MAY 27, 1899.

NO. 21



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
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Poor galvanizing shows itself in many ways—in a rough surface, some places too thickly coated and others almost bare; in spots that are left uncoated, or where the acid is not removed and is slowly eating through the galvanizing. RESULTS—Iron soon discolors, or rusts under exposure. . . . "Queen's Head" galvanizing is as nearly perfect as it can be—it costs something to the makers, but is worth it all, and more, to the consumer.

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TORONTO, ONT.

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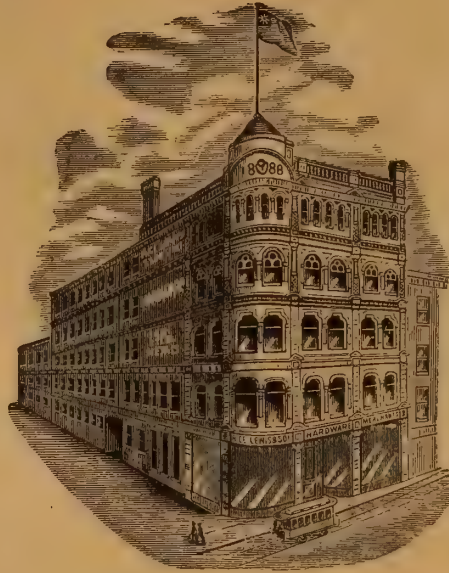
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Hammerless
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Write for complete
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SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIPPERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."
"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. C. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

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Not connected with any Shear Combination.

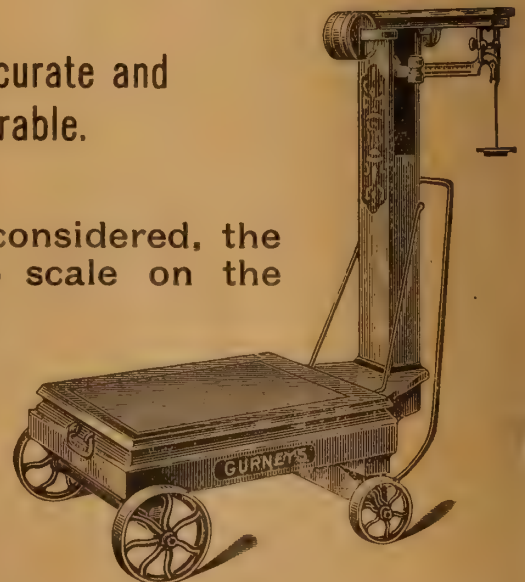
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Accurate and
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Quality considered, the
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THE GURNEY SCALE CO.

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PROPERLY
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PROFITABLE
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Garden Hose

IS MADE WITH OUR

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The seamless rubber tube being equally strong
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OUR BRANDS

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WIRE WOUND
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COTTON RUBBER LINED
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THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

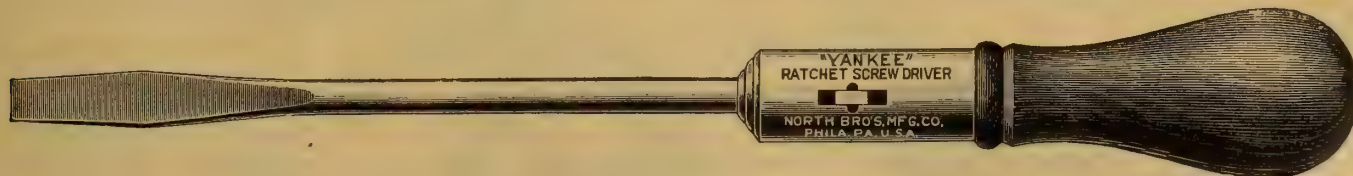
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RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.

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BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"AMERICAN" HALTERS

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ONEIDA LOCK RINGS

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Ring easily ADJUSTED until

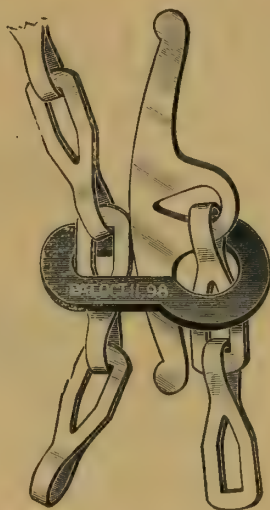
Toggle is in place, then abso-

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"MAXWELL FAVORITE CHURN"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

LAWN MOWERS.

High and Low Wheels, from 12-in to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

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In Four different sizes.

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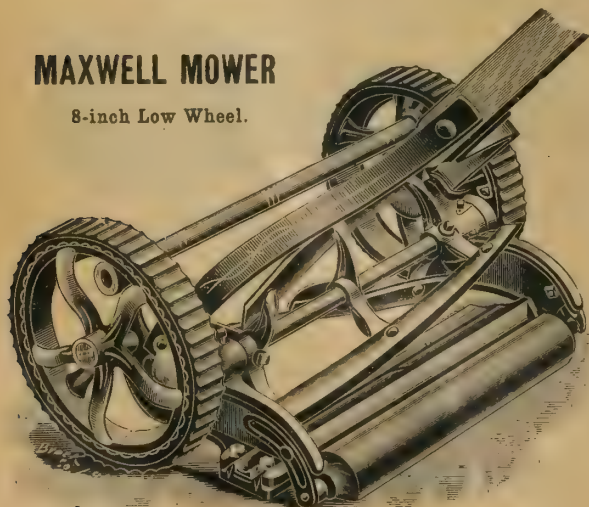
Steel Frame.



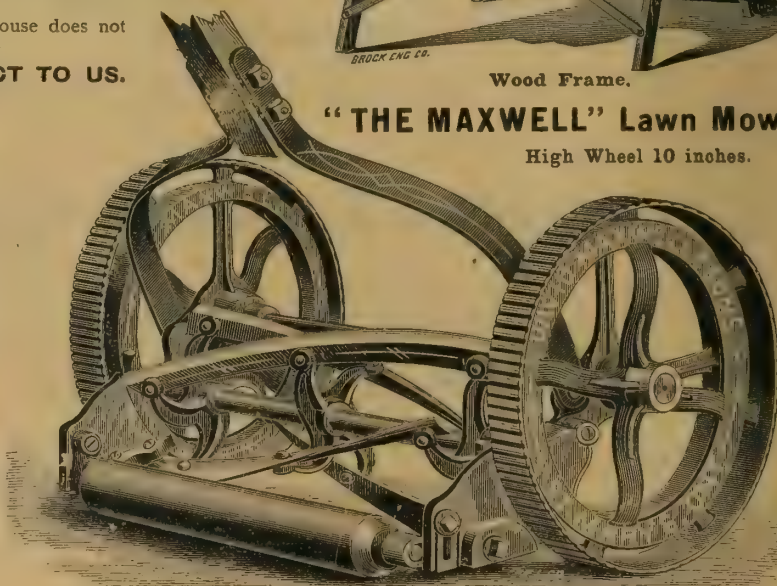
Wood Frame.

MAXWELL MOWER

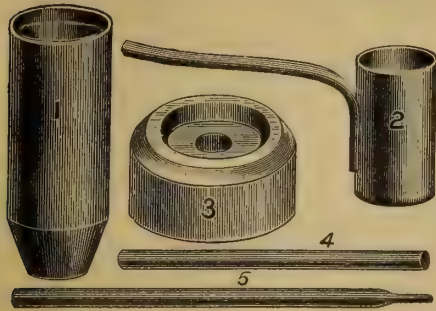
8-inch Low Wheel.

**"THE MAXWELL" Lawn Mower**

High Wheel 10 inches.



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1. Creaser. 2. Measure. 3. Wood Seat.
4. Re-capping Pin. 5. De-capping Pin.

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Steel Tray Wheelbarrows

Tubular
Meaford (Columbus)
Railroad or Navvy

With Steel Trays (Pan American).

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22 St. John Street, - - MONTREAL.

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CLELAND BROS. & CO.

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

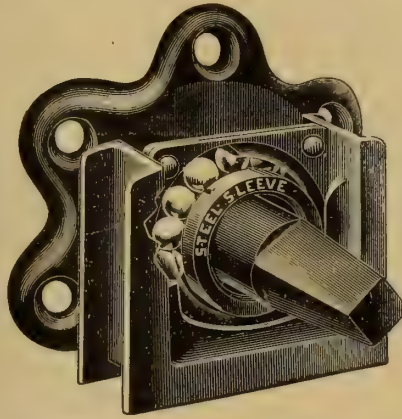
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Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



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THE DOWSWELL MANUFACTURING CO., Limited

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possess a peculiar toughness
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WARE TRADE.

The long fibre we make
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THE BEST.



This Trade Mark is
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ALWAYS HOLD AND INCREASE
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That's Why . . .

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There is none
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Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter,
and a Binder will run all day with them with-
out stoppage, thus saving time, annoyance
and an endless lot of trouble.

We pack our twine in bags of the size of ordin-
ary grain bags and are not ashamed to put
our name upon them. Don't take any other.

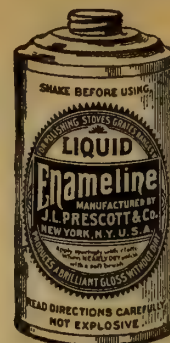
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PASTE.



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We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

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Cloth and Paper.
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"FLORA" Knife Polish, in 3d, 6d.
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Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

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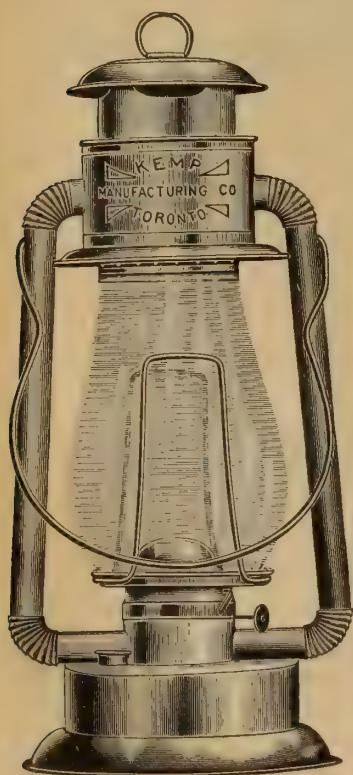


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THE LONDON EMERY WORKS CO.,

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LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S COLD BLAST LANTERN

The result of careful study and experiment.

It is easy to light, as the globe swings back giving free access to the burner.

The burner has an extra deep flange which holds it firmly in place.

It has a large oil font and broad base, and is not easily upset.

The tubes are made from one piece of material, with patent elbows.

It will not blow out.

The strongest gust of wind will not cause the flame to flicker and drop below the cone of the burner, but it will give a steady light under all circumstances.

It will give a clear, white light with ordinary oil, and will not smoke the glass.

All the parts which sustain the greatest strain are made from extra strong material.

Kemp Manufacturing Co.,

**...TORONTO,
CANADA.**



President, Treasurer,
JOHN BAYNE MacLEAN, HUGH C. MacLEAN
Montreal. Toronto.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

FURTHER ADVANCES IN IRON.

COMPARED with the values ruling at the opening of the month, there has been a material advance in all lines of heavy material at Pittsburg, and, as the rise in the same bears directly on articles of iron in more finished stages of manufacture, some reference to the changes is proper just now, especially in view of the upward tendency in general hardware values.

Foundry iron at Pittsburg is from 25c. to \$1 per ton higher than it was at the opening of the month, and the advance has been appreciably greater in the lower than in the higher grades. For instance, a month ago, No. 1 foundry iron was offering at Pittsburg at \$16. to \$16.50, but to-day \$16.75 is asked. No. 2 iron, a month ago, was

quoted at \$15 to \$15.25, but to-day is firm at \$16.75; and No. 3, \$15.75, as against \$15 at the beginning of the month. Grey forge iron is up 75c. per ton in the month; Bessemer pig, 65c.; billets, \$1 to \$1.50; steel bars, \$1; muck bars, \$1, and scrap iron, 50c., all of which advances demonstrate that there is a sound foundation for the higher prices now being asked by sellers of more finished descriptions of iron material.

The labor troubles at lake ports, if they are of lengthy duration, are certain to exert a material influence on iron values.

RANGE BOILERS AGAIN ADVANCE.

Another advance of \$1 is announced this week in the price of galvanized range boilers, making the second in the last two weeks.

Prices quoted by jobbers are now as follows: 30 gallon, \$8; 35 gallon, \$9; 40 gallon, \$10.

These prices are about \$2.50 higher than those ruling a year ago.

The advance is due to the cost of raw material. Business is still brisk in range boilers.

Quality determines the character of a commodity, and commodities, like men, must have character to be successful.

GREEN WIRE CLOTH DEARER.

Green wire cloth has again advanced, the price this week having been marked up to \$1.50 per 100 square feet, net cash 30 days.

This makes a total advance of 30c. or 2½ per cent. since the beginning of the month.

The appreciation is purely owing to the increased cost of raw material.

The price in Canada is now about the same as it is in the United States.

TRUCKLING TO BARGAIN-HUNTERS.

THE bargain-hunter is an evil genius in business, but too many merchants encourage rather than discourage him in the pursuit of his hobby.

Instead of throwing him off the scent by holding up to his attention goods of quality they keep him on the scent by persistently holding up to him goods of poor quality.

It is not price, but merit which ought to sell goods, and, as it pays the merchant best when he is doing business on this principle, it is obviously shortsighted for him to follow a contrary course.

Instead of pushing low-priced, push the high-priced goods. Keep the latter going and the former can be depended upon to take care of themselves.

Merchants who keep hammering away at quality will eventually earn a reputation for quality. Truckling to bargain-hunters can no more bring this about than can good characters be acquired by companioning with the disreputable.

THE OATH OF EXPORTERS TO CANADA.

An Order-in-Council has been passed whereby the foreign owner or exporter of goods shipped to Canada on consignment may make the prescribed declaration before a notary public resident in the county from whence the said goods are exported to Canada.

Heretofore the declaration had to be made before the collector, the mayor, or other chief municipal officer, or before a British consul.

It appears that these regulations caused a great deal of irritation, hence their amendment, as noted.

CANADIAN GOODS FOR FRANCE VIA ENGLAND.

CANADIAN goods consigned to merchants in Great Britain are frequently, as a good many are aware, re-exported to other countries. Among the countries to which these reexported goods go is France, between which and Canada a commercial treaty exists, and under the provisions of which certain goods the product of the Dominion entering the French republic are assigned the privileges of the minimum tariff.

As the English merchant disposes of, to various buyers, the Canadian goods consigned to him, the sales he makes to customers in France seldom, if ever, comprise the whole of the original shipment, hence the certificate of origin which accompanies the whole consignment is no longer of effect. With a view, however, to getting over the difficulty, the English merchant has been in the habit of making out a certificate himself for the particular part of the consignment going to France, certifying that the goods comprising it were of Canadian origin. The French authorities have, however, refused to accept these certificates, declaring that goods, in order to enjoy the privileges of the minimum tariff, must be accompanied by certificates delivered by the authorities of the country of origin.

The British Chamber of Commerce in Paris took the matter up with a view to securing a way out of the difficulty, and, according to the last monthly circular of the Chamber to hand, its efforts have not been abortive.

It has not succeeded in inducing the French Customs authorities to accept the certificate issued by the British merchant, but a letter which the Chamber has received from the director of Customs at Paris states that "when importers into France can show only a collective certificate, it has been admitted that each shipment into France should be accompanied by an extract upon stamped paper of the collective certificate, showing the number of parcels or cases, the marks and numbers, the weight and description of merchandise." These extracts are to be certified as correct by the local chiefs of Customs of the ports where they are made.

By this means, not only will fraudulent practices be prevented, but the Customs

officials in France will be able to identify merchandise comprising the shipment, whether it be the whole or part of that in the original consignment.

The British Chamber of Commerce in Paris is entitled to the thanks of Canadians as well as that of the English merchants directly affected.

HARDWARE IN THE YUKON.

THE Yukon may be celebrated for its gold, but it is also celebrated for the high prices that are sometimes obtained there for various articles.

The Department of Labor at Washington has recently published a report in which is presented a detailed statement of the figures which prices reached last year in Dawson City.

Nails, it states, sold for \$5 per lb. A hardwareman who was in Toronto a few weeks ago cited an instance where eight kegs of nails sold for \$5,000, which is a better price than \$5 per lb. These were all the nails that were left in Dawson, and as the miners, who wanted them for sluicemaking, could not do without them, they had to pay for them.

A Yale lock sold for \$6, while for a pair of door butts \$16 was obtained. Rough lumber realized \$150 per 1,000 feet. Before the ice broke \$600 per 1,000 feet was paid merely for hauling lumber to the vicinity of Dawson City.

When the summer months approached prices declined, and a uniform rate agreed upon by The Alaska Commercial Co. and The North American Trading and Transportation Co. showed that these two concerns were willing to sell nails at 25c. per lb., shovels and axes at \$4 each, coal oil at \$8 for a five-gallon tin.

These prices are attractive, but there are a good many hardware merchants who find the attractions of civilization even more so.

BAR IRON IS HIGHER.

The manufacturers of bar iron have advanced their prices another 10c. per 100 lb., and carload lots are now quoted at \$1.70; ordinary lots from stock are quoted at \$1.75 to \$1.80 base.

The demand for bar iron keeps active, and the mills are experiencing difficulty in supplying the demand.

THE NEGLECT OF BUSINESS LEGISLATION.

ALTHOUGH the Dominion Government was not the author of the insolvency bill which was withdrawn last week, yet it was responsible for its withdrawal. The statement of the Premier proves that.

Great as is the need of an insolvency law covering the Dominion, the fate that Mr. Fortin's bill has experienced is no surprise. On the contrary, the surprise would have been had it become law.

To say nothing of the home demand for the law, there was the necessity for it in order that the Dominion might be put right in the eyes of exporters and others in Great Britain, a great number of whom look upon the negligence of the Dominion Parliament in this respect as little short of dishonest.

But business men may want. Governments, either Liberal or Conservative, do not, as a rule, comply with what business men want.

One railway company can put an army of politicians to flight, but one politician can, as a rule, withstand many business men.

Such a condition of affairs does not bode well for the commercial interests of the country. But all the fault does not lie with the politicians.

The trouble is the business men of the country have been more wedded to their respective parties than they have been to their business. They know a certain course should be taken by those in power, but because of their supineness the desideratum is seldom forthcoming. They advance their arguments, but do not back them up by substantial force. They bring out their cannons, but they load them with neither shot nor shell. And politicians, like soldiers, are not afraid of unloaded weapons.

When the business men of this country have strengthened themselves by weakening their party ties, they will be able to present such a front to whichever party may be in power that when they want a thing they will get it, be it an insolvency or any other necessary law.

Until then they should either stop parading or put ball in their cartridges.

A merchant has sometimes got to keep his temper in order to keep his trade.

THE WINDOW GLASS SITUATION.

THE uncertainty, and, in some quarters, the anxiety, as to when import orders of glass shall arrive has been, to a certain extent, relieved by advices that the first orders may be expected about the middle of June. This is about three weeks later than last year.

Dealers who have placed import orders cannot, however, calculate to receive their orders within three weeks of the time they got them last year, for, though the first orders are coming that soon, the following ones may not, as the demand has been so brisk and the supply so curtailed by the strike of Belgian coal miners and of the glass blowers in some quarters of Belgium that deliveries are likely to be strung out over a longer time than last year, and it is impossible to determine when all orders will be delivered.

In the meantime, there is a good business being done by jobbers, for, though retailers are buying as little as they can, stocks in the country are so light that orders for sorting up are numerous and often fairly large.

Importers, however, have the consolation that when their glass does arrive they are likely to make a good margin of profit on it.

Since orders were taken early in the year there have been several advances, bringing the prices in Belgium to an abnormally high point.

An advice just received, dated May 13, states that in consequence of the brisk demand, and the strikes, that another sharp advance has been made in Belgium, the discount being five points less than before. Prices in Belgium are now so high that if importers had to place orders they would have to ask much higher figures than the prices now quoted locally, though these are by no means low.

Since, however, the mail advices left Belgium, the strike among the coal miners has taken a more favorable turn. What effect this may ultimately have upon prices remains to be seen.

OPPOSITION TO THE TINPLATE TRUST.

The American Tinplate Company, commonly known as The Tinplate Trust, organized only a few months ago, does not

appear likely to be left long without organized opposition.

Although in existence but a short time, several abortive attempts have been made to start rival companies, but now another attempt is being made, and the press despatches state that it is likely to be successful. One West Virginia steel and iron company, we are told, is to erect a tinplate mill, while a couple of the other companies will join in the movement against the big consolidated concern.

A BIG STEEL COMPANY'S CAPITAL.

THE capital of the proposed new Carnegie Steel Co. is only to be a little more than one-third what the newspapers asserted it would be. It is an enormous amount at any rate, being, according to a statement of the Carnegie Steel Co., Limited, \$250,000,000.

The amount which rumor formerly had it was \$650,000,000.

The \$250,000,000 will be preferred stock, and \$100,000,000 5 per cent. bonds are to be issued. The latter will go to Mr. Carnegie.

The preference stock will be divided among the present partners in The Carnegie Steel Co., Limited, and The H. C. Frick Coke Company, probably 40 in all. The Carnegie Steel Company, Limited, was organized in June, 1892, just after the famous Homestead strike, when a small-sized civil war obtained for a while. There were two companies then in existence, Carnegie, Phipps & Company, Limited, and Carnegie Brothers & Company, Limited, both being limited liability partnership concerns.

The articles of partnership of Carnegie Brothers & Company, Limited, were made on April 1, 1881, and as there is a law on the statute books of Pennsylvania by which limited liability partnerships in that State terminate in 20 years, and as The Carnegie Steel Company, Limited, are operating under the original partnership of Carnegie Brothers & Company, Limited, it will be seen, therefore, that the partnership would expire by limitation April 1, 1901.

The original capital stock of Carnegie Brothers & Company, Limited, was \$5,000,000, and this was increased to \$25,000,000 when The Carnegie Steel Company, Limited, was organized.

DROPS FROM THE EDITOR'S PEN.

A tidy store denotes a tidy merchant.

He who gives credit often gives dollars.

The assistant with a repulsive manner is a misnomer.

A good business cannot be built up by bad methods.

Be pleasant before the customer as well as before the camera.

Training is essential for business as well as for athletic events.

Fast living usually means slow progress in business or any other avocation.

A business man can only win fame by the goods he keeps and the methods he employs to sell them.

An exaggerated advertisement may sometimes make people talk, but it will not always make them buy.

The \$20,000,000 coffin trust which is being formed across the border is designed to put off the burial day.

It is too bad that, just as the free silverites are starting their quadrennial campaign in the United States, the announcement should be made that the world's output of gold last year increased by \$50,000,000.

WANT THE IRON ORE SMELTER.

A petition is being circulated and largely signed throughout Cape Breton, N.S., asking that, as it is proposed to establish modern and extensive smelting works in Cape Breton, the Dominion Government would continue its policy of bonusing Canadian-smelted pig iron.

The petition states that the establishment of the smelter would mean "the establishment of iron shipbuilding and other kindred operations such as would rapidly attain national importance."

SCRAP IRONS DEARER.

The stiffening in the pig iron market has affected the price of agricultural, machinery, and stove cast scrap. Agricultural has risen 10c., machinery 3c., and stove cast 35c. per cwt. Wrought scrap is unchanged. At the present prices there is a brisk demand and a decidedly firm feeling.

LATE LIEUT.-COL. CAVERHILL.

IN the death of Lieut.-Col. Frank Caverhill, which occurred very suddenly on Sunday evening at his residence, 1090 Sherbrooke street, Montreal, wholesale hardware and military circles in the "Commercial Metropolis" have lost one of their best known and most influential members.

A chill, first complained of on Thursday, developed into a fatal attack of pneumonia. The deceased's widow, mother and family have the sympathy of a large circle of friends in their sad bereavement.



The late Lieut.-Col. Caverhill.

Lieut.-Col. Caverhill was a well-known figure in Montreal. Born in Beauharnois, Que., in 1854, a descendant of one of the old Scottish families who were among the first settlers in this country, he was sent to Edinburgh to receive his education, which he later completed at the University of Glasgow. Returning to Montreal in 1872, he commenced a commercial career as clerk for Crathern & Caverhill. Upon the death of his father and his uncle, in 1882, in conjunction with Mr. James Crathern and J. B. Learmont, he took over the shelf hardware portion of the firm's business. Among other things, Mr. Caverhill gave a great deal of attention to military matters. He entered the Royal Scots in 1876, and rose to the command of that regiment, which he held for five years, retiring in 1891. He had been a member of the board of trade since 1888, and was a director of the Montreal Loan and Mortgage Company. He was connected with the St. Andrew's and Caledonian Societies, and, since 1891, was a justice of the peace for the city and district of Montreal.

The funeral on Tuesday, which, by order of the Major-General Commanding, was a military one, called out one of the largest gatherings assembled at a solemn function of this kind in Montreal for a long while. With all the honors befitting his rank and followed by sorrowing relations, and the hundreds of regretful friends and acquaint-

ances the funeral took place from the deceased's late residence, 1090 Sherbrooke street. On either side the steps leading up to the residence, members of the 5th Royal Scots, deceased's old regiment, and with the men and officers of which he was so popular, stood on guard, whilst at the foot of the steps was a gun-carriage from the field battery, attached to seven white horses, and on the farther side of that, in double line, stood the regiment of the 5th Royal Scots, under the commanding officer, Lieut.-Col. Ibbotson. Beyond these was a mass of the general public, extending right across the street, and up the steps of the private residences on the opposite side, then crowding away west for a considerable distance, and reaching east (the direction in which the cortege was to move) as far as the sight could range—thickly clustered together in the more immediate vicinity of the house and then thinning out gradually, until either side of the street was lined for many blocks.

Prior to the religious service, which was conducted at the house by Rev. Dr. J. Edgar Hill, chaplain of the Royal Scots, some hundreds of those who had known the deceased in life entered the house and passed in front of the casket containing the remains, taking a last look at the features of him who had been so suddenly summoned to answer the solemn last roll call. The number of floral offerings that had been sent was very large. The casket was smothered in them; they were banked up from the floor all around it, and they were occupying places in every corner of the room. And the beauty and variety of these tributes of regret to the departed were no less remarkable than their number.

The service was brief, simply consisting of the reading of a portion of Scripture and the offering up of a prayer. And then came the final departure from the house—the bearing away of the dead. As the coffin was borne out of the door, the Royal Scots presented arms, the people reverently uncovered their heads, and o'er the marked stillness that prevailed came from the band of the regiment the sweetly beautiful strains of "Nearer, My God, to Thee." Following the casket were the chief mourners: Messrs. John B. and George F. Caverhill, brothers; Dr. J. A. Hutchinson, W. A. Baker, J. R. Baker, Ernest Baker, A. G. Cross, H. T. Newman, F. W. Newman, Fred Crathern, and Peter Buchanan.

As soon as the casket, covered with the Union Jack, on which were deposited the sword and helmet of the late colonel, had been placed on the gun-carriage, the battalion reversed arms, and the vast cortege commenced to move. First came the men of the Royal Scots, with Major Carson and Captain and Adjutant Meighen at their

head, and behind them walked Rev. Dr. J. Edgar Hill, with Major Cameron on his right and Lieut.-Col. Ibbotson on his left. Next followed the band of the Royal Scots, playing solemn music, and then came the carriage in which had been placed the floral offerings, followed by the gun-carriage and casket, on either side of which walked Lieut.-Cols. Stevenson, Henshaw, Prevost, Massey, Cole, Crawford, McArthur and Bond. Then came the riderless horse (led by two privates of the Royal Scots), saddled, and with the deceased's boots spurred and reversed in the stirrups, and next followed the chief mourners, the non-coms. of the Royal Scots, a number of the Highland Cadets, officers of the several local regiments, and, stretching away in the rear, a long line of the general public, and the employees of the firms of Caverhill, Learmont & Co., Crathern & Caverhill, and Caverhill & Kisson.

The cortege passed along Sherbrooke street, past many residences where blinds had been drawn as a mark of respect, and up Park avenue to Mount Royal cemetery, where the religious service was concluded, the final farewell volleys were fired, and all that was mortal of Lieut.-Col. Caverhill was committed to the grave.

Among those noticed in the cortege were: Lieut.-Cols. Butler, Starke, Cooke, Hood, Dixon, Lyman, MacLean, Burland, Cole, Crawford, Gardner; Majors Lyman and Sims; Surgeon-Majors F. W. Campbell and Rollo Campbell, Capt. Andrews, Sir Melbourne Tait, Mr. Justice Davidson, Senator Ogilvie, Dr. J. B. McConnell, and Messrs. James Crathern, W. Kisson, Charles Alexander, William Drysdale, J. B. Learmont, C. J. Chisholm, Hon. Peter Mitchell, James Darling, E. Holton, W. G. Robertson, Geo. Connell, H. Douglas, John Walker, Charles Shorey, S. O. Shorey, J. H. Hodges, Gustave Piche, Smeaton White, R. S. White, E. L. Bond, S. H. Ewing, W. Morrice, James A. Cantlie, O'Hara Baynes, F. S. MacLennan, Chas. F. Smith, D. L. Lockerby, Alex. McFee, James Cochrane, T. J. Potter, Jas. McShane, Robert Bickerdike, W. A. Weir, John Moffatt, W. S.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO
Limited
HAMILTON, ONT.

Weldon, Chas. Byrd, H. Nolan Deslisle, A. M. Crombie, James Slessor, S. S. Silverman, R. Costigan, Thomas Lynch, J. P. B. Casgrain, R. A. Campbell, D. Macdonald (St. John), M. Davis, C. P. Sclater, Robert Mackay, R. Stanley Bagg, Theo. Doucet, H. Russell, James Johnson, James Robertson, W. S. Kerry, S. Harris, W. Waugh, J. Alex. Stevenson, John Watson, George E. Drummond, J. T. McCall, James Barclay, John Dillon, Thomas Stafford, John Allan, Charles Cassils, L. G. A. Cresse, Baron Von Hugel, Albert Linton, Andrew McCulloch, Robert Starke, B. Hal Brown, Andrew Stewart, James Coristine, R. K. Thomas, D. McIntyre, William Sclater, John Brown, Thomas Irving, C. N. Osgood, William Bellingham, W. E. Christie, Edmund Guerin, James Shearer, Joseph Fortier, Francois Martineau, Samuel Colson, William McMaster, A. W. Stevenson and John Macdonald.

QUAINT DUTCH SIGNS.

THE signboards that hang out from the doors of little shops in small Dutch towns are often very ancient affairs. In Viaardingen one sees such places, where ready-made starch, hot water and fire are sold; and, although to-day all persons read and write, in the past centuries this was not the case with such people, who did washing and other everyday work. Therefore, the signboard was indispensable to the ignorant, and many such signboards still hang, though the owners of the shops are advertised with their wares in the approved nineteenth century manner. A little place where starch was sold had a large bowl painted on the sign, with a well starched frill beside it. Hot-water shops have a kettle set over roaring flames, and for "fire", they show a turf burning brightly.

In Rotterdam, a curious signboard, bearing the date of 1628, presents Jacob lying under a tree, while, between him and a large milk can with a pile of cream cheese beside it, the famous dream of Jacob descends in the form of a crude ladder very like the steps of a chicken-house. On it are two angels. One, nearly down, politely offers a hand to the smaller angel, which follows him. The big angel points with his unoccupied hand to Jacob. The smaller angel has an eye on the cream cheeses, his interest in them being so apparent that he loses footing in his voyage down the ladder, and has the attitude of "clutching at a straw."

Cobblers also seem to have been fond of Job as their patron saint, for many signboards represent him. You frequently see the letters D.G.I. (De Geduldige Job) over their doors, where hard work and drudging is done. In Dokkum the following verse


What Is It?

No two mixings of paint, mixed by hand and stirred with a stick, are alike. They can never be depended on to look well or wear well. The Sherwin-Williams Paints never vary a shade or a penny-weight from the right proportions. It has taken us thirty years and more to discover the right proportions and the right ways of making The Sherwin-Williams Paints, but now they are as near perfect as paints can be.

THE SHERWIN-WILLIAMS PAINTS

are ground and mixed by skilled labor and improved machinery, they are sold in sealed cans that keep them just right. Different kinds for different purposes. Get the right kind. "Paint Points", our free booklet, will guide you.

THE SHERWIN-WILLIAMS CO., PAINT AND COLOR MAKERS,
21 St. Antoine St., Montreal; also, Toronto, Cleveland, Chicago, New York.



expresses in a rather philosophical manner the feelings of the cobbler worker :

Job was a most patient man,
Who would be like him, can—
But better not.
For he who sits within this cell,
Must slippers, boot, and shoes mend well;
A toilsome lot,
And payments oft forgot.

Over the door of a fish dealer in Vlissingen, who, in the olden days was also evidently a teacher of the catechism, you read :

Here we sell salt-water fish, just caught,
And will teach you also to do as you ought.

In Rijswijk a sign read thus :

Here we shave, wash, and cure sick dogs,
And also make good sour-kraut !

—New York Times.

NEW STEEL PLANT IN BUFFALO.

Preparations for the erection of the \$15,000,000 steel plant which it is proposed to erect at Stony Point, near Buffalo, are in active progress. J. J. Albright, formerly of The Union Car Co., of Detroit, and other Buffalo capitalists, have organized The Stony Point Land Co., with about \$1,000,000 capital. This company will acquire title to the land secured at Stony Point, aggregating over 900 acres, and later, it is understood, will turn it over to the new steel company.

The prime mover of the new steel works is Walter Scranton, president of The Lackawanna Steel Co. The latter company, however, is not interested as a corporation. It

is also reported that President James J. Hill, of the Great Northern Railway, is largely interested.

"FILE PHILOSOPHY" HAD A GOOD RUN.

It is learned from The Nicholson File Co. that the "File Philosophy," notice of which was made in these columns upon its publication two months ago, has proved so popular that a second and much increased edition is rendered necessary. The little book has been sent to thousands of machinists and file users throughout the United States, Canada, and European countries. Treating, as it does, of files and how to use them, it proves invaluable to anyone interested in that class of tools. All those who have not secured a copy would do well to get one. They may be had free upon application to the company's head office in Providence, R.I.

PROGRESSIVE HAMILTON.

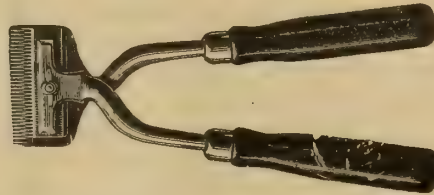
Hamilton is getting some new factories, and several of the old ones are being enlarged. Our manufacturers will have the facilities to produce more pig iron, bar iron and steel, more stoves and weigh scales, more brass and tinware, more furniture, more clothing and more knitted goods. They are investing capital and employing labor in the expectation that they will be able to find a market for all these products. Times, Hamilton.

H. S. HOWLAND, SONS & CO.

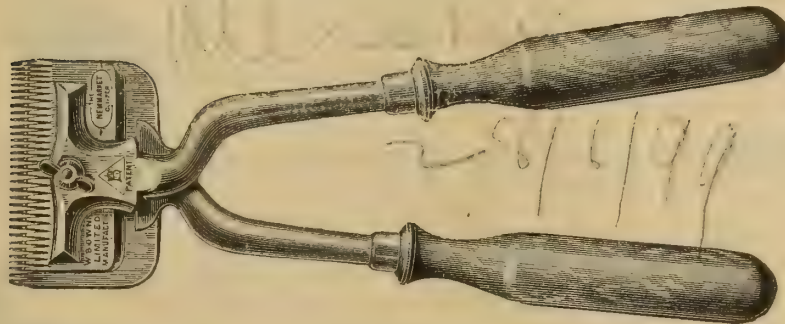
Wholesale Only

37-39 Front Street West, TORONTO

HORSE CLIPPERS



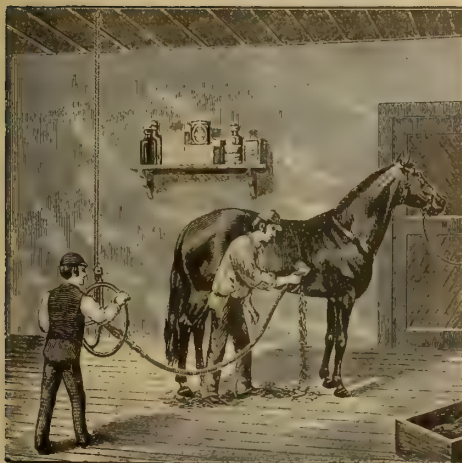
Boker's "Dandy"	-	-	-	\$12.95 doz.
" " "Keen Cut"	-	-	-	13.80 "
" " "Perfection"	-	-	-	17.20 "
" " "Ball-Bearing"	-	-	-	20.40 "



"Newmarket" Clippers - \$21.00 doz.

LIBERAL TRADE DISCOUNT

JUST ARRIVED



CHICAGO FLEXIBLE SHAFT HORSE

\$13.35 each. **CLIPPERS.**

Also Horse Singers.

H. S. Howland, Sons & Co., Toronto.

NEW YORK METAL MARKET.

PIG TIN—London cables came considerably higher and indicated decidedly strong tone to the market, with surface indications that "shorts" on the market are having an unpleasant experience. Only 100 tons were shipped from the Straits to England during the first half of May, and the spot stock there, according to some records, has been cut down to about 6,000 tons. A year ago there were in that market, according to the same authority, about 12,500 tons. The prices then were on the basis of £67 10s. for spot delivery. Yesterday the price was £118 6s. 3d. In the New York market holders quoted on the basis of 25.70 to 25.75c. for five-ton lots, spot delivery, and 25.80 to 25.85c. for smaller quantities. No business out of the ordinary line was reported.

COPPER—Economy on the part of consumers, due in a good measure to high cost of the metal, has, in conjunction with freer offerings by some of the mining companies, served to keep the market unsettled, particularly for Lake Superior ingot. This variety of the metal was offered at 18¼c., and there were indications that bids of 18c. would have been accepted for future deliveries by one or two companies at least. Electrolytic was quoted at about 17½c. for bars, and casting stock at 17½c. for good brands.

PIG LEAD—There was moderate business only in this market, and the demand continued spiritless, with indications that consumers are keeping shy, as much as possible to offset efforts of speculators to force prices up on the strength of the western miners' strike. The range of 4.45 to 4.50c. was quoted for common domestic.

SPELTER—Smelters are holding prices very steady at 6¾ to 7c. for western, according to brand, for spot delivery, but futures were decidedly weaker, and could have been bought at from 6.70c. for July down to 6.50c. for December delivery. There was little business here, and buying interest continued extremely tame in the matter of bidding, as well as in purchasing.

ANTIMONY—Fair business in a jobbing way is all that is taking place in regulus, and prices remain at 10 to 11c., as to brand and quality.

TINPLATE—A rather slow market was reported, and nothing developed in the way of distinctly new feature regarding values. The American Tinplate Co. refuse to quote prices for publication, and no change was noted in other sources.

IRON AND STEEL—Little is doing in pig iron outside of ordinary purchases by the smaller foundrymen, and there is no remarkable spirit to the demand. In short, the operations here are decidedly in con-

trast with those reported from western centres, yet of sufficient volume to hold prices steady.

Old material remains quiet, with buyers and sellers considerably apart on prices.

Manufactured iron and steel remain quiet here, but reports from the producing centres are cheerful, noting continued activity at the mills and generally firm prices.—New York Journal of Commerce, May 25.

FREIGHT RATES REDUCED.

Owing mainly to the action of the Wolverhampton Chamber of Commerce, the railway companies serving the district have conceded some important reductions in the rates on iron, steel, and hardware conveyed from the Black Country to Liverpool and Birkenhead. Some of the principal concessions are indicated in the following table:


Class of Goods.	New Rate.		Old Rate.	
	s.	d.	s.	d.
Hollow ware, packed, company's risk.....	16	10	20	0
Ditto, owner's risk.....	13	11	17	1
Hardware, packed, company's risk.....	16	10	18	4
Iron and steel, Class 1, 2-ton lots...	11	0	12	6
Iron and steel, Class B, 4-ton lots...	6	11	7	3

These concessions are of a fairly substantial character, and will afford a much-needed relief to the manufacturers in the Black Country, who are greatly hampered by the conditions attaching to their insular position. But the railway rates to London are still a very serious drawback to the heavy hardware trades of the district, and hopes are now entertained that in their own interests the railway companies will shortly make some concessions. As an instance of the present extortionate rates its may be mentioned that a package of hardware recently sent from Willenhall to H.M. Dockyard at Chatham, was charged at the rate of 42s. per ton. The package could have been sent to New York for considerably less money.

WITHOUT HOISTING TACKLE.

A novel method of moving a tank is described in a recent issue of The Genie Civil. The tank was used to hold Petroleum, was 82 ft. in diameter, 32.8 ft. high, and weighed 140 tons. To remove it 131 ft. a wall 2 ft. high and 1 ft. thick was built on the level surface of the porous sandy soil, so as to enclose the old and new masonry foundations, which stood a few inches above the surface of the ground. The tank was built with a flat bottom and curved top, from plates 0.16 in. to 0.47 in. thick. It was first filled with air at a pressure 8 in. of water. Then water was pumped into the artificial pond enclosed between the temporary walls until it floated the tank from its foundations, the task then drawing 8.2 in. More water was pumped in to raise the tank 4½ in., and it was then hauled by a windlass and rope to its new site. It was held against a semicircular row of piles driven around the new foundation until it sank in its permanent position as the water was slowly drawn out of the pond. The tank was uninjured, and its removal occupied a few minutes only.

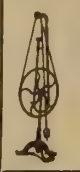
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COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.




PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., U.S.A.



COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS.



Pullman Sash Balance Co.
Makers of the
"Pullman" Hardware Specialties
Main Office and Works,
Rochester, N.Y., U.S.A.



Size, ¾-inch.
Cheapest IN THE WORLD.
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.



The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited

**D.F. Jones Manufacturing Co.
Limited, of Gananoque, Ont.**

Established 1852.

Shovels
Spades
Draining
Tools



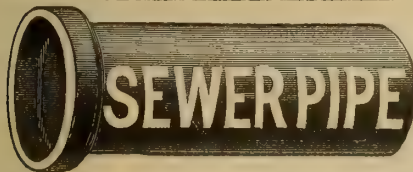
Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Have your foundation
well and truly laid

FOR

Spring Trade

Oval and Flat Paints
Flat Wall
Sash Tools
Varnish, Oval or Flat
Kalsomine
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Paperlayers'
Paint Dusters

Scrubs
Shoe
Store

Dandy
Horse
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Bannister and Hair Brooms
Window Brushes and Rubbers
Dusters and other Household Brushes
Brooms, Whisks and Woodenware

And a well selected stock of

Boeckhs'
Brushes, Brooms,
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Woodenware.

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PARIS GREEN

GUARANTEED PURE.

GOVERNMENT STANDARD.

Arsenic Kegs
50-lb. Drums
1-lb. Papers

BINDER TWINE

Standard
Extra Manila
Warranted Pure Manila

ENQUIRIES SOLICITED.

WRITE FOR QUOTATIONS.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

164 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

HARDWARE DISPLAY WINDOWS.

THE following is an extract from a discussion which took place at a convention of the Missouri Retail Stove and Hardware Dealers' Association :

"How often should we wash the windows and change the exhibits, and should the goods be marked in the windows in plain figures?"

Mr. Bannon, of St. Louis, said :

"I have been for fifteen years I suppose in one of the nicest neighborhoods in the Lafayette Park district and I have found it very profitable to change my windows at least twice a week, putting something new in them every time. I believe in making a display of the very finest stove in the window and all the necessary fixtures that go with it; then, if you have another window, put a gas or gasoline stove in it with the necessary fixtures that go with it. Then, if you have any fine hardware, put in some of that, changing the show windows at least twice a week and washing them at least twice a week. Now, as to marking goods, I do not know that it would be considered of much benefit because it is misleading in some respects, for the reason that it leads one sometimes to put up a price that is a catch price and does not fairly represent what you have inside your store. I think the windows should be kept clean and the dust kept off of them at all times, and the goods should be kept fresh in them. I think it is a good idea to put some special article in the window, something that will attract attention. I remember one time a friend of mine had an old stove, it was a round stove—it may be that some of you have seen one of them—it traveled around on a wheel and was made fifty or seventy-five years ago, and I blacked it up and put it my window and it was astonishing how many people would come and ask what it was. It gives a great deal of pleasure to people to look at things of this kind. I think it a good thing to put something new, some new feature in the window—it may be only a larding needle—I venture to say that a good many of you do not know what that is."

Secretary Thomas, of Trenton, said :

"This question of marking goods in plain figures or in characters depends upon the way in which a man does business. I believe that a man who has but one price ought to mark his goods in plain figures, but I believe that a man who changes his prices should mark his goods in characters. The reason the department stores and racket stores mark their goods in plain figures is because if you go and ask them their price they tell you and if you ask for credit they tell you 'no, sir,' they sell only for cash, and the man goes there with the understanding that he pays the price marked

on the goods and pays the cash for them. I believe if you have but one price then it is best to mark them in plain figures. In relation to dressing windows there is only one trouble with me and that is that I do not dress them often enough; I don't believe they can be dressed too often, and I believe in making changes in the windows often. I do not dress my windows often enough, that is a fact."

THREE YEARS UNDER THE CASH SYSTEM.

I had a few minutes chat with Mr. Michael Naughton, of Naughton Bros., general merchants, Richmond Hill, on Monday. Naughton Bros., who have been in business 30 years, adopted the cash system three years ago.

"We are," he said in reply to an inquiry, "well satisfied with our experience. To my mind it is the only way we can compete with the department stores. Out in Richmond Hill, which is 17 miles from Toronto, we feel pretty keenly the competition of these department stores. They now send their delivery wagons out to our town three times a week. The only help for us is to get down to the cash basis and be as up-to-date as possible. The cash system is gradually being adopted in Richmond Hill. Atkinson & Switzer, one of our largest firms, adopted it last November."

"Did your firm experience any difficulty in introducing the cash system?" I asked.

"No."

"Did you follow any special course in adopting the system?"

"No. We just advertised in the local papers what we purposed doing. There is one little difficulty we have, by the way, and that is with customers who, after getting the goods they order, say they will pay us in a week. They do not always pay us in a week. It is difficult to know, sometimes, what to do in such circumstances, particularly when the people are customers and sound financially. I suppose one way out of it would be to lend them the money," concluded Mr. Naughton.

WILLOW BASKETS.

The question is sometimes asked why some willow baskets soon become brown and discolored while others keep white so much longer, says an exchange. Those that discolor are made from willow from which the bark has been removed by steaming. The imported baskets, made where labor is not such a big factor in cost, are woven from willows that have been peeled with knives, and these hold their clean white color to the close of their existence, which is a much longer period than that of the domestic product. If one only knew how to distinguish "t'other from which," now!

BRITISH HARDWARE AND METAL EXPORTS.

BRITISH exports of hardware and metals during the four calendar months ending April 30 last were, on the whole, favorable.

Unenumerated hardware aggregated £489,398, against £474,046 for the same period of 1898; cutlery, £180,901, against £164,178; pig iron, £314,370, against £284,638; railroad iron, £169,710, against £242,779; black plates for tinning, £25,994, against £17,469; tinplates, £72,414, against £98,168; galvanized sheets, £80,967, against £75,453; locomotives, £449,974, against £283,461; agricultural steam engines, £206,244, against £134,706; steam engines not specified, £526,903, against £465,181; copper, £266,109, against £221,372; cast and wrought and unenumerated articles, £108,456, against £121,848; steel, unwrought, £87,114, against £101,529; telegraph wire and apparatus, £442,479, against £313,671; agricultural machinery, other than steam engines, £526,903, against £465,181; mining machinery, £250,978, against £210,768; textile machinery, £2,202,370; gunpowder, £2,769,100, against £2,085,000; railway carriages, £284,063, against £256,277; railway trucks and wagons, £387,771, against £402,786; cycles and parts thereof, £248,554, against £391,855; plate and plated ware, £121,072, against £114,439.

During the four months under review unenumerated hardware to the value of £6,300 was sent to Canada, against £7,245 for the same period in 1898; cutlery, £15,638 against £13,046; pig iron, £591 against £1,825; railroad iron £24, against £24; tinplates, £3,089 against £3,846; galvanized sheets, £389 against £983.

THE POOREST SOME GOOD.

Newspaper advertising is sometimes very weak, but everybody understands by this time that the poorest ad. must do some execution, says Merchants' Review. The difficulty is that when the inquiring advertiser seeks advice in order to make his ads. do superior execution, he often discovers that the experts disagree as to the best way of putting an ad. together. Some ad. doctors condemn the use of extraneous matter, such as is commonly employed in captions for the purpose of attracting the reader's eyes; others argue that without introductory matter of a foreign character an ad. in a crowded paper has not much chance of being noticed, or if noticed, of being read. Illustrations, if selected with judgment, enable the ad. writer to get down to business at once, but the great point in framing an ad. is to bear in mind the purpose for which it is to be published.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

Time Saved is Money Saved.

Your Customers will Save Time by using

ARCADE FILES.

And we stand back of this statement with an offer to refund the money for any ARCADE FILES that do not cut faster and wear longer than any other make.



"See that key? It took me two hours to fit it with a — file. The same job I'm doing now in half an hour with an Arcade."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL May 26, 1899.

HARDWARE.

THERE has been a fair volume of business noted in shelf and general hardware during the past week. A fair demand is noted for wire and cut nails, screws, bolts, rivets, etc. Horse nails and horseshoes are rather quiet, but in all lines the very firm tendency of raw material exerts a very strong influence on values, which all round reflect steadiness, if not in some cases a distinct tendency to advance. No further actual alterations have, however, transpired since last report.

BARBED WIRE—There is only a narrow trade in this article, as business is checked by the difficulty of procuring supplies. We quote \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—A quiet trade is doing, and prices are steady at a base figure of \$2.50 f.o.b. factory.

FINE STEEL WIRE—This line presents nothing special, and discounts are unchanged at 25 per cent.

GALVANIZED WIRE—Trade quiet and

values unchanged on the basis of \$2.80 f.o.b.

BRASS AND COPPER WIRE—Inquiry light and discounts as formerly.

FENCE STAPLES—As last quoted at \$2.90 for bright per keg of 100 lb., with galvanized \$3.50.

OTHER STAPLES—There has been no further change in these since the alterations noted last week.

WIRE NAILS—There is a fair inquiry for these with a good movement both from first and second hands. Prices are unchanged on the basis of \$2.50.

CUT NAILS—There is a fair trade noted for jobbing parcels, and values are steady at \$2.05 f.o.b.

HORSE NAILS—A seasonable trade is noted. Discounts: 50 per cent. on Standard and 50 and 20 on Acadia.

HORSESHOES—Trade continues quiet. We quote as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern,

No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

TACKS—As last reported. We quote as follows: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—Without change: In dozens, 85 and 25 per cent.; and in bulk, 10 per cent. off list.

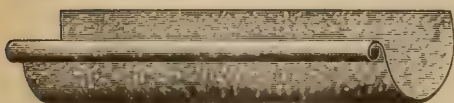
SCREWS—Fairly active and steady. We quote as follows: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—In fair request. Discounts: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

Eavetroughs

26 or 28 GAUGE.

SPECIAL DISCOUNT for orders, if not less than 1,000 ft. at one time.



"HALF ROUND"—with round bead on outside.

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with round bead on outside (cannot freeze under bead).

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with square bead on inside.
Sizes: 8, 10, 12 and 15 in. girth.

Conductor Pipes

Galvanized

PLAIN OR CORRUGATED.

ELBOWS, SHOES, HOOKS, Etc., supplied, all kinds, for eavetroughing and conductor piping.

WE SHIP ORDERS QUICK.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



No waste with Apollo galvanized iron, because it is soft tough ductile bendable malleable and flat; saves time.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada - MONTREAL

CANADA IRON FURNACE CO.,
Limited
Manufacturers of

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que. Three Rivers.
Lac a lac Tortue. Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

RIVETS—Steady, with a good movement. Discounts on black and tinned, 55 per cent.; ditto burrs 50 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—Late cables state that the market for hemp has been depressed by large arrivals and weak holders, coupled with advices indicating favorable crop prospects. We quote: Manila, 11¼c.; sisal, 10¾c., and lath yarn, 9¾c.

SHOT—Firmly held: Ordinary, 6c., and chilled, 6½c.

CEMENT—The market is without any special feature. Demand for car lots is fair and prices are steady. We quote: Belgian, \$1.90 to \$2.10; English \$2.30 to \$2.40, and German, \$2.45 to \$2.65, per cask, ex wharf.

FIREBRICKS—There is an active trade in these, some large lots changing hands within the old range of \$17 to \$23 per 1,000, as to brand.

METALS.

The firm tendency of the metal market continues unabated.

PIG IRON—Demand is fair and prices are steady, further business being noted in Hamilton brands at \$19 to \$20 for No. 1, and \$18 to \$19 for No. 2. We hear of nothing doing in Scotch, but quote leading brands at \$21 to \$22.

BAR IRON—This material continues strong at \$1.70.

HOOP IRON—Unchanged, at \$2.65 to \$2.70 per 100 lb.

STEEL—Firmly held all round. We quote: Sleighshoe and tire, \$2.45 to \$2.50; spring, \$2.65; machinery, \$2.90, and toe calk, \$2.90.

GALVANIZED IRON—In fair demand and prices firmly held, at \$4.75 for No. 28 Queen's Head and \$4.35 for Comet.

INGOT COPPER—Unchanged at 19½ to 20c.

INGOT TIN—Firmly held at the recent advance, 30c.

PIG LEAD—Without change at \$4.25, and demand fair.

LEAD PIPE—Business quiet at 7c. for ordinary, and 7½c. for composition waste, with 17½ per cent. discount.

IRON PIPE—In fair request and very firmly held at the rise. We now quote: Black pipe, ½ and ¾-inch, \$2.98; 1-inch, \$2.95; ¾-inch, \$3.55; 1-inch, \$4.90; 1¼-inch, \$6.50; 1½-inch \$8.25, and 2-inch, \$10.50. Galvanized pipe, ½ and ¾-inch, \$5.64; 1-inch, \$6.64; ¾-inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—An active demand is experienced. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.00 for 52's.

TINPLATES—A good movement noted,

Cast Steel.

FOR

Tools, Dies, Drills, etc.
Bicycle Steels.

CANT HOOK STEEL,
CRUCIBLE SPRING STEEL,
CAST SHEET STEEL.

A. C. LESLIE & CO.

MONTREAL.

Agents SANDERSON'S STEEL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

NO SCREWS

JUST BORE

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.

96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

1C and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

and, with stocks in limited compass, prices are firm. We quote: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—Steady, with a fair demand, at \$6.25.

COIL CHAIN—Quiet and firm at the rise. We quote: No. 6, 10½c.; No. 5, 9c.; No. 4, 8c., and No. 3, 7c. per lb.; ¼-inch, \$5.75; 5-16, \$4.50; ¾, \$4; 7-16, \$3.55; ½, \$3.75; 9-16, \$3.70; ⅝, \$3.60; ¾, \$3.40, and ⅞, \$3.30 per 100 lb.

SHEET ZINC—Quiet but firm at 8 to 8¼c.

ANTIMONY—Steady at 10 to 11c.

SPELTER—Stiffly held at the advance: S.S., \$6.90, and V.M., \$7.

GLASS.

Supplies of window glass are coming forward very slowly, and prices rule very firm. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Lead is very firmly held at the recent advance. Mixed paints are strong, but no change in price is noted. Turpentine is unchanged at the decline, 64c., but, since this change, prices in the South have advanced, owing to the fact that the output is 30,000 bbls. short of a year ago, and, as a result, no lower prices are expected for some time.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6½c.; in oil, pure, 9c.; No. 1, 7½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 51c.; boiled, 54c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 64c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COD OIL—37½ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins,

\$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Arrivals of firebricks to date are 245,820.

Cables on manila hemp from London are rather easier in tone.

Turpentine is pointing upwards at primary points as a result of shortage in supplies.

ONTARIO MARKETS.

TORONTO, May 26, 1899.

HARDWARE.

TRADE is active and evidently more so than a week ago. In barbed wire, nearly all the business is in the imported article, the home manufacturers being unable to get delivery of galvanized wire in sufficient quantities to supply the demand. Trade in fence wire is just fair. In nails, business during the week has been only moderate. Horseshoes and horse nails continue quiet. Trade is still active in screws, bolts and rivets and burrs. A good deal of ammunition is going out. There is not a great deal being done in enamel ware, although inquiries are beginning to come in for preserving utensils. Eavetrough is going out freely. Oil stoves are in active request. Ice cream freezers are still in good demand. Green wire cloth is 20c. dearer, with the demand exceeding the supply. Screen doors and windows are also scarce and in demand. Harvest and garden tools are all in active demand and scarce.

BARBED WIRE—There is a fair demand for barbed wire, but the Canadian manufacturers are prevented from doing much business on account of the difficulty that is still being experienced in getting supplies of raw material. The market is firm, and \$3.05 per 100 lb. is the ruling figure. An advance in present figures may be looked for in the near future, as United States could not be laid down at present prices.

SMOOTH STEEL WIRE—The demand is only moderate. Base price is unchanged, at \$2.50 f.o.b. factory.

FINE STEEL WIRE—There is not much doing. The discount is still 25 per cent. f.o.b. factory.

GALVANIZED WIRE—Business is fair. We quote: Nos. 6, 7, 8 gauge, \$3.40; No. 9, \$2.90; No. 10, \$3.50; No. 11, \$3.55; No. 12, \$3.05; No. 13, \$3.15; No. 14, \$3.90; No. 15, \$4.50; No. 16, \$4.65.

Oakey's

The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years.

Established 1870.

29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

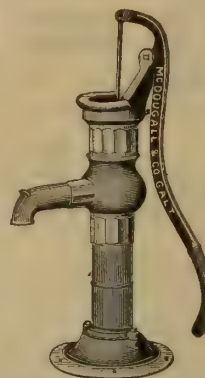
SEYBOLD, SON & CO. - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND BRASS

Pumps

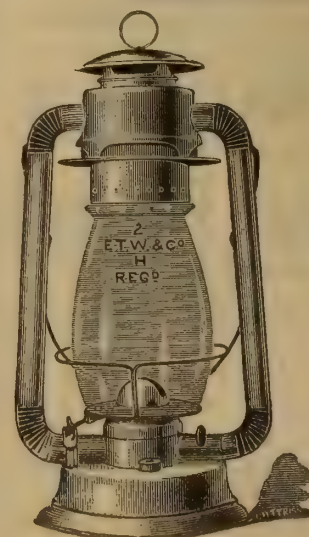
Force, Lift and Cistern Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited
Manufacturers, Galt, Canada.

E. T. WRIGHT & CO.

Hamilton, Canada.



"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.

Send for new Catalogue.

WIRE NAILS—Business is just moderate although a number of small orders are being received. The base price is unchanged at \$2.55 Toronto.

CUT NAILS—Business is quiet and prices unchanged at \$2.05, Toronto, Hamilton and London.

HORSE NAILS—Business is still only quiet. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—A moderate business only is still to be noted. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—Trade is still as it has been for some time. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—The bolt trade continues active. We quote as follows: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent. Trade in this line continues active.

RIVETS AND BURRS—The demand is particularly good. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 55 per cent.; iron burrs, 50 and 5 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The market for manila hemp is strong, and cables from London on Wednesday noted an advance of 5s. per ton. On the Toronto market rope is meeting with a fair demand at steady and unchanged prices. We quote as follows: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand,

They Fit so Perfectly

Because of their patented side lock, that they are quicker laid than other shingles.

EASTLAKE SHINGLES

do not require any changes in construction to cover up defects. They offer now, as they always have, perfect, durable protection from all kinds of weather—and are specially economical when you consider the time and labor saved in laying them.

**FIRE, LIGHTNING AND RUST PROOF
GALVANIZED OR PAINTED.**

They're in popular demand because they give enduring satisfaction. If you haven't our catalogue, write

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.



9½c. per lb.; Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business continues good. We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—A good many of these are still going out. We quote: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—A fair movement in this is reported. We quote as follows: Plain building, 30c. per roll; tarred lining, 40c., according to quality; tarred roofing felt, \$1.45 per 100 lb.; carpet felt, \$2.10 per 100 lb.

GREEN WIRE CLOTH—A further advance in this line has taken place, the price per 100 square feet now being \$1.50 instead of \$1.30.

POULTRY NETTING—A good movement in this line is still to be noted. Discount, 50 and 5 per cent.

EAVETROUGH—The season is on for this line and the quantity going out is large. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—Trade is active in spades and shovels. Discount, 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—A good

trade is being done in both these lines. Hoes and rakes are scarce. Discount on harvest tools 60, 10 and 5 per cent.

LEATHER BELTING—Trade keeps good. We quote as follows: Extra, 50 per cent.; Standard, 50 and 5 to 50 and 10 per cent.

CEMENT—A big trade is being done in native Portland cement. The feeling is firm, without change in prices. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

Trade is fairly good, with prices ruling firm.

PIG IRON—The market is decidedly strong, and prices in the United States have advanced. We quote Hamilton iron as follows: No. 1, \$17; No. 2, \$16.50; No. 3, \$16, all f.o.b. cars at the furnace.

BAR IRON—Prices have been advanced another 10c. per 100 lb. by the mills, and the base figure for carloads is \$1.70, and for small lots from jobbers' stocks \$1.80 to \$1.85.

BLACK SHEETS—Trade keeps fair with 28 gauge quoted at \$2.85 per 100 lb.

GALVANIZED IRON—The movement from stock is fair and a few import orders are still being booked. We quote "Queen's Head" and United States brands, 28 gauge, at \$4.75 and \$4.60 per 100 lb., respectively.

COPPER—The ingot market is a little unsettled this week. We quote 19 to 19½c. per lb. for ingot, and 23 to 23½c. per lb. for sheet copper.

FIG TIN—The outside markets are stronger. Locally the demand is fair, with prices ranging from 29 to 30c. for Lamb and Flag, and 28½ to 29c. for Straits.

TINPLATES—The movement continues fair and prices firm.

TINNED SHEETS—Business continues good. We quote: 24-gauge, 6 to 6¾c.; 26-gauge, 6¾ to 7c.; 28 gauge, 7½ to 7¾c. per lb.

CANADA PLATES—Only a few odd boxes are going out. New stocks are arriving. We quote: All dull, \$2.70 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—Business is fairly good. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

FIG LEAD—The market rules firm. Local prices are unchanged at 4¼ to 4½c. per lb.

IRON PIPE—Business is still brisk, with prices firm and unchanged. Boiler tubes have been advanced this week in the United States. We quote as follows: ½ to ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ½ inch, \$5.75; ¾ inch, \$7; 1 inch, \$9.85; 1¼ inch, \$14; 1½ inch, \$17.50; 2 inch, \$24.50.

RANGE BOILERS—Galvanized range boilers have again advanced \$1. We quote as follows: Galvanized, 30 gals., \$8; 35 gal., \$9; 40 gal., \$10. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Trade is fairly steady although not large. We quote: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ⅝ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—Business keeps good at 8¼c. for cask lots and 8½c. for small lots.

SPELTER—The outside markets rule steady, and locally the demand is good and prices unchanged at 7½ to 7¾c. per lb.

SOLDER—The demand is still good.

We quote: Half and half, 17c.; refined, 16½c.; wiping, 16c.

ANTIMONY—The market is steady and prices unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

A brisk sorting trade is causing a good movement of all materials. Paris green is selling more actively as stocks in retailers' hands are beginning to run short. Castor oil this year has been quite steady and almost unnoticed, while last year the changes in its price caused dealers to watch it pretty closely. Paris white and the better qualities of whiting are steadily becoming short, but it is expected that further supplies will be in before the present stocks are exhausted. Dealers were well stocked with white lead before the advance, which is well maintained. Turpentine has declined 2c., but is steady at the present price. All other materials are firm, without change in price. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 53c.; 4 boiled, 1 to 4 barrels, 56c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 64c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

Advices have been received that the first import orders of glass were to be started from Belgium on the 23rd inst. They will, therefore, be in Canada about the middle of June. Word has also been received of a sharp advance on the Belgian market, on account of the strikes there. Local prices are firm but unchanged. We quote as follows: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

Agricultural scrap is 10c., machinery cast, 3c., and stove cast 5c. dearer. Other scrap metals are firm and in brisk demand at unchanged prices. We quote as follows: Agricultural scrap, 50c. per cwt.; machinery cast, 55c. per cwt.; stove cast scrap, 35c.; No. 1 wrought scrap, 45c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 35 to 40c. per 100 lb.

HIDES, SKINS AND WOOL.

HIDES—The market is steady. We quote cowhides: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c. Steer hides are worth



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

Binder Twine

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

LONDON, ONTARIO.

½c. more. Cured hides are worth 8¾ to 9c.

SKINS—The easy feeling has resulted in a decline of 1c. in veal hides. We quote: No. 1 veal, 8-lb. and up, 9c. per lb.; No. 2, 7c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins are coming in slowly at 90c. to \$1, and lambskins at 20c.

WOOL—Prices are unchanged. Fleece, is easy 13c., and washed at 8 to 8½c.

PETROLEUM.

There is no change. A moderate trade is doing. We quote in barrels, Toronto: Canadian, 14½c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

COAL.

Prices are unchanged. Business is quiet. We quote anthracite at Buffalo and bridges: Egg, stove and nut, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

MARKET NOTES.

Turpentine has advanced 2c. per gallon.

Bar iron has again been advanced 10c. per 100 lb.

Galvanized range boilers have been advanced another \$1 each.

Agricultural scrap iron has advanced 10c., machinery cast 3c., and stove cast 5c. per cwt.

Green wire cloth is 20c. dearer than a week ago, being quoted at \$1.50 per 100 square feet.

ORIGIN OF PETROLEUM.

There are three working hypotheses: First, that petroleum is of animal origin; second, that it is of vegetable origin, and third, that it is of mineral origin. Each theory has its supporters, and the controversy still rages with more or less intensity. Recent investigations of Engler and Gacunski, on the petroleum and asphalt from the vicinity of the Red Sea, have given heart of grace to the supporters of the animal-origin theory. It has been pointed out by the opponents of this theory that if petroleum were of animal origin we should find nitrogen compounds in it, but these are mostly lacking. But these two scientists have found in the Red Sea petroleum, as well as in the asphalt, nitrogen compounds. Thus, the oil from Gemesh contains 0.3 per cent., and that from Gebel 0.7 per cent. of nitrogen, and the investigators think that the nitrogen is present in the form of pyridin and piperidin bases. Asphalt from the vicinity of the Red Sea has been found to contain as much as 2.1 per cent. of nitrogen. In petroleum from the Caspian Sea, Charitchoff has found 0.14 per cent. of nitrogen.

16 Governments.
85% R.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Manufacturers of **Polished, Silvered, Bevelled Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETT**," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

A HAY-FORK HUSTLER.

A smart Yankee drummer is now working the South of England, I hear, in the interests of a Michigan firm of hay-fork makers. The metal portions of these goods are attached to the handle by means of a socket and straps, but the latter are not riveted to the wood, in order to keep down the prices, which range from 9s. 6d. per dozen for the 4-foot to 11s. 6d. for 6-foot lengths. As the finish is said to be excellent, home makers will need to wake up if they desire to meet this latest form of over-sea competition.

From Manchester comes a further illustration of the keenness of American enterprise. The Philadelphia Commercial Museums have opened in that city what they call a Cabinet of American Manufacturers, which contains index-cards of more than 2,000 of the principal firms in the United States, representing every branch of industry. The firms specially selected are those interested in the export trade, and the cards are so arranged as to be readily accessible, and are to be revised periodically. — Vulcan, in Ironmonger.

A VANCOUVER MAN'S OPINION.

E. J. McFeely, of McLennan & McFeely, wholesale hardware dealers, Vancouver, who recently returned from a five-weeks' trip through eastern cities the other day, spent considerable time in getting ideas for the construction of the immense warehouse the firm proposes to erect on the south-east corner of Abott and Hastings streets, Vancouver.

Mr. McFeely visited St. Paul, Minneapolis, Toronto, Montreal, Ottawa and Winnipeg, and, according to The Vancouver Province, found his ideal warehouse in Winnipeg, the wholesale warehouses of George D. Wood & Co. and J. H. Ashdown, in that place, being the most modern and complete he saw during his investigations.

Messrs. McLennan & McFeely will build on two lots each 50x132. The building will

be four storeys in addition to the basement, and the foundation will be laid this summer.

The firm has its hands full with the northern branches established recently, or the work would be pushed forward without delay. Mr. McLennan will go to Dawson in a few weeks to look after the northern business.

PATENT REPORTS.

Owing to recent changes in the examining corps, the number of patents granted have been very few during last month. Marion & Marion, however, report the following as having been granted to their clients: 62,956, J. T. Gagnon, Alberni, B.C., improvement in bicycle wheels; 62,950, David Irene Bruneau, Kingsey Falls, Que., improvements in garment cutting squares; 62,995, Felix Hoerens, St. Francois, Beauce, Que., wrench; 63,015, Joseph A. Cote, St. Hyacinthe, Que., insoles for boots and shoes; 63,020, Henry Jones, Vancouver, B.C., water-wheels; 63,022, Paul Lair, Lotbiniere, Que., engines; 63,018, J. O. N. Tetrault, Montreal, Que., shoes for athletic purposes; 63,048, Abram Broodsky, Montreal, Que., process for treating plaster paris molds; 63,056, Hector Bernier, Montreal, Que., roofing compound.

THE COMET CYCLE CO. FAILURE.

The Comet Cycle Co., which recently assigned, and, at a meeting of creditors, was given till Monday, this week, to offer 50c. on the dollar, have refused to make such an offer. The estate will, therefore, be wound up.

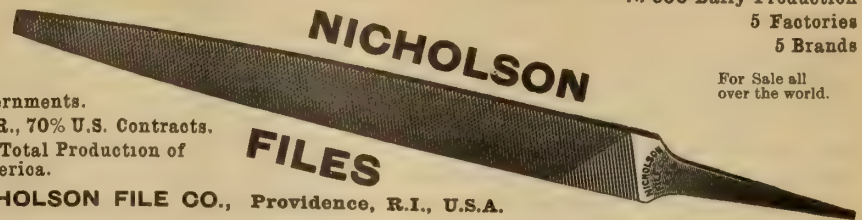
PERSONAL MENTION.

Mr. H. S. Hergert, formerly with M. & L. Samuel, Benjamin & Co. is now with the Vokes Hardware Co., Toronto.

Mr. R. S. Davidson, treasurer of the Peterboro' Hardware Co., Peterboro', Ont., was in Toronto this week.

FOR SALE.

A COMPLETE TINSHOP OUTFIT OF Tools and Machines, en bloc or separately. Apply to The Gurney Foundry Co., Toronto. (22)



MANITOBA MARKETS.

WINNIPEG, May 22, 1899.

BUSINESS is brisk, and now that navigation has fairly opened stocks are arriving almost faster than they can be handled. One house had to-day 44 carloads of stuff standing in the N. P. yards waiting for transmission to their own siding from the transfer track. There have been a large number of changes in the price list this week, and there will be a further advance in sheet metals, copper, tinplates, galvanized iron and zinc next week.

Price list corrected to date is as follows :

Barbed wire, 100 lb.....	\$3 50
Plain twist	3 50
Staples	4 00
Oiled annealed wire.....	10 20
"	11 30
"	12 25
"	13 30
"	14 30
"	15 30
Wire nails, 30 to 60 dy, keg.....	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount:	
Horseshoes, iron, No. 0 to No. 1.....	4 40
No. 2 and larger	4 15
Snow shoes, No. 0 to No. 1.....	4 70
No. 2 and larger	4 40
Steel, No. 0 to No. 1	4 70
No. 2 and larger	4 45
Extra light	5 65
Bar and band iron, \$2.30 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb	8 50
Jessop	12 50
Sheet iron, black, 10 to 12 gauge, 100 lb..	3 00
14 to 26 gauge.....	3 25
28 gauge	3 60
Galvanized American, 16 gauge...	4 00
18 to 22 gauge	4 25
24 gauge	4 50
26 gauge	4 75
28 gauge	5 00
Genuine Russian, lb.....	12
Imitation	8
Tinned, 24 gauge, 100 lb.....	7 25
26 gauge	7 50
28 gauge	8 50
Tinplate, 1C charcoal, 20 x 28, box	8 50
" IX	10 50
" IXX	13 00
Ingot tin.....	29
Canada plate, 18 x 21 and 18 x 24	3 10
Sheet zinc, cask lots, 100 lb.....	8 50
Broken lots.....	9 00
Pig lead, 100 lb.....	4 25
Wrought pipe, black up to 2 inch.....	60 p.c.
" Over 2 inch.....	60 and 10 p.c.
Rope, sisal, 7-16 and larger.....	11 00
" 3/4	11 50
" 1/2 and 5-16	12 00
Manila, 7-16 and larger	12 00
" 3/4	12 50
" 1/2 and 5-16	13 00
Solder	18
Cotton, all sizes, lb.....	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass.....	70 and 10 p.c.
Round "	65 p.c.
Bolts, carriage 5-16 and smaller.....	52 1/2 p.c.
3/4 and larger.....	47 1/2 p.c.
Machine	52 1/2 p.c.
Tire	60 and 10 p.c.
Sleigh shoe.....	65 p.c.
Rivets, iron.....	50 p.c.
Copper, No. 8, lb.....	33 1/2 c.
Spades and shovels.....	33 1/2 c.

TRADE CHAT.

THE SYDENHAM GLASS CO., Limited, Wallaceburg, Ont., are extending their plant and putting in better facilities for the handling of their coal and ware.

While Harvey Wilson and John Wocker, of E. M. Marshall's hardware store in Sarnia, Ont., were engaged lowering about 600 lb. of material to the cellar of the store, the elevator gave way and young men and material were precipitated to the floor beneath, a distance of about 12 feet. Harvey Wilson had his head and right leg hurt, while Jno. Wocker got off with a few scratches. The former will be off work for a few days as a result of the mishap.

GRAPHITE.

"Not a single iron casting is taken from its sand mold without the sand being first faced by graphite," says a recent writer. "Not a gun projectile is cast but the steel is melted in a graphite crucible; not a tool, not a saw is made but from graphite crucible steel. Every pound of nickel, of copper, of composition metal, of brass, is cast in some way, the metal being reduced in a graphite crucible. Every printing house, for the perfection of its electrotypes, is absolutely dependent on graphite. Every electrician and every department of electrical work comes under the same tribute. Graphite lubricates friction ways; it is notably the most enduring paint pigment, and the bulk of the writing done on the globe to-day is done with a graphite pencil; it has ministered to the arts of peace and to the science of war. It saves labor and it proves a short cut to desired results. In brief, not a factor which to-day contributes to civilization but is helped by graphite. It is found in great abundance in the island of Ceylon, in the Indian Ocean, and next in quality at the graphite mines at Ticonderoga. The industry is fascinating from the moment the miner drives his drill, and all along the line of its being refined, until both in usefulness and beauty it reaches perfection. The electric light would shine much less easily but for graphite, and the production of steel rails is equally dependent. The beautiful mineral has peculiar characteristics. Heat and cold and the highest and lowest extremes of both cannot touch it. It can bathe in acid as does a pebble in cold water."

Wallace Anderson's hardware store at Simcoe, Ont., was entered by burglars and a number of revolvers, knives and razors were stolen. Entrance was gained by forcing the door at the rear of the storehouse and subsequently breaking in every door from there to the store. No clue as yet to the burglars.

The United States Geological Survey report states that the total lead production from all sources in that country was 310,606 net tons, as against 289,598 in 1897 and 264,994 in 1896. This includes hard lead, soft lead and the metal obtained by smelting foreign base bullion and ores in bond. Reports from nearly all the important producers show a decline in stocks from 17,608 tons on January 1, 1898, to 14,683 on January 1, 1899.

The Dominion trade returns for the ten months ending April 30, show that the total trade was \$255,057,327, as compared with \$240,836,881 for the same period in 1898, being an increase of \$14,220,446. This increase is entirely due to the large volume of imports, as there was a decrease of about \$4,000,000 in exports. The duty for the same period increased by nearly \$2,733,000.

"Vancouver, Nanaimo and Westminster merchants having generally acquiesced in the proposal to close their places of business at 7 p.m. during the summer months, and give a Wednesday half-holiday, a movement in the same direction has been started here," says The Victoria Colonist. "The clerks who have taken the initiative in the matter hope that they will be as liberally treated as their mainland neighbors have been."

The Gurney-Massey Co., Limited, have installed in the kitchens of the Windsor Hotel, Montreal, a No. 348 "John Bull" range, 33 ft. 6 in. long by 3 ft. 6 in. wide. It has eight fires and eight ovens. The flues are lined with 1-inch firebrick, not only for protection, but to make the ovens as near the old-style brick oven as possible. The oven front is made of heavy grey iron and is removable, while the oven door frames are made of wrought iron, lined with sheet steel. The entire range, warming closet and boiler, is surmounted by a large steel, nickel-trimmed canopy.

NEEDS TWO CAPITALS.

THE merchant who trusts out his goods must employ twice as much capital in the business as if he did a cash trade, says Outfitter. We say twice; it may be thrice or four times. It depends on how much he trusts out.

A credit business may be a profitable business. It is not a safe business, or is safe only in a small minority of cases. It is almost certain to involve losses. Let a man be ever so careful and strict in the scrutiny of the character and resources of those he trusts when he begins a credit trade, he is all but sure to become lax and easy. It is almost impossible to maintain a rigid standard. Everybody is liable to be mistaken and to be imposed upon. The bars once down you are bound to be overrun with plausible and irresponsible risks.

How many cash businesses do you know of that failed?

How many where credit was given?

What is the proportion between the two?

How much cheaper can you sell if you give no credit?

How much more ready money will you have with which to take advantage of bargains?

Will you not sleep better, be freer from care, enjoy your life here on earth somewhat more?

"But I won't do so much business, perhaps won't make so much money."

"Ay, that's the rub. It's the anxiety to let no customer escape, to do all the possible business. That's just the point where the ambitious but speculative man needs to put the check on himself. Let him deny himself in the one respect of granting risky credit or all credit, and he can find other ways of pushing the business that will eventually enable him to satisfy his ambition.

Buying and selling for cash, he can undersell those who get trusted and trust. Having thus unequalled advantages, he can press them home to the buyers through persistent advertising, backed up by liberal methods in all respects but credit-giving. Possessing ordinary business ability and fair conditions, such a man should never know the distresses which haunt and finally destroy so many retail merchants.

KEEP YOUR TEMPER!

Be good-tempered. It pays, in every way. It pays, if you are an employer; it pays, if you are an employee. It is profitable, in every walk of life. And this is taking the most selfish view. You owe it to others to be good-tempered. You owe it to your manhood, to your womanhood, to your own self-respect. Only a coward by nature

will be ill-tempered at home; only a fool will be so abroad. In making others comfortable, you are making things agreeable for yourself; you are gaining and keeping good-will, which may be of value and help to you hereafter; you are accumulating a capital of popularity and good report, which may be used to advantage, perhaps, at a critical time. Good temper is a great factor in success.—Business.

HOW PLATE GLASS IS BENT.

"The demand for plain and beveled-bent glass is increasing in this country every year," said a manufacturer of the material in New York, to a writer for The Washington Star recently. "This kind of glass is now made to suit any and every desired curve, and it is largely used, not only for showcases, but forming conservatory roofs, the front and bent windows in carriages, steamboat pilot houses, store and house fronts, in buildings where domes and skylights are needed, and for a variety of other ornamental and useful purposes by cabinet and furniture makers. It is made in sizes varying from 1x12 feet to 12x15 feet, and even larger, and it costs only about 50c. per foot more than the ordinary flat glass."

"How is bent glass formed?"

"The glass is not made at the bending factory. It is merely curved by us to suit the requirements of the trade or to meet some special order for the material that is not obtainable in the market. The glass, of whatever kind or size it may be, is placed in its finished state upon the top of a massive steel mold having the desired form or curve. The mold, which is mounted on wheels is then rolled along a track on the floor to the kiln. When the glass reaches the kiln it is

there subjected to a temperature of 1,800 deg., and in this intense heat it does not melt, but soon becomes so soft that it sinks by its own weight into the shape of the mold beneath. In this soft and bent condition the glass is left in the kiln to anneal and cool slowly for from 24 to 36 hours. At the expiration of that time the mold is rolled out of the kiln and the glass, if properly curved, is removed from the steel bed. The great heat to which it is subjected does not in the least disturb the polished surface of the glass. But, despite the exercise of every precaution, a great deal of glass is broken in bending, and these accidents add very materially to the cost of the article."

SEND for specimen copy of Phillips' Monthly Machinery Register, containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum, all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, £5. per annum, price per copy, 6d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon., England. Telegraphic address: "Machinery, Newport, Mon."



STEEL LETTERS and FIGURES.

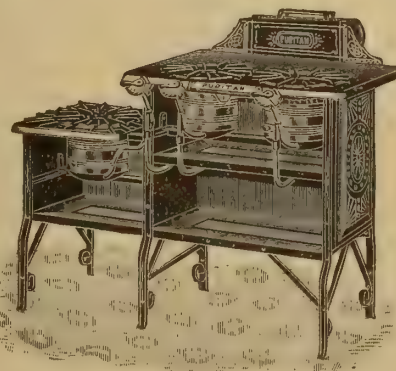
If your Jobber does not keep our steel letters and figures send to us direct, we make everything in steel stamps.

HAMILTON STAMP & STENCIL WORKS

Hamilton, Ont.



Puritan Wickless Blue Flame.



This is the only Wickless Blue Flame Oil Stove that has given satisfaction. . . .

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East

— TORONTO.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THERE is, it is said, an increasing demand for basic, open-hearth steel which will revolutionize the iron and steel industry. It is said that railway engineers are dissatisfied with Bessemer steel for bridges and even rails. In the recent Boston Elevated Railway contract, open-hearth steel was specified.—American Artizan.

U.S. GALVANIZED CORRUGATED IRON.

Quotations on some large lots of galvanized corrugated iron were being asked for Saturday by merchants in Broad street which are said to be needed for the Chilean market. The orders, in all probability, it is said, will have to be sent to England, on account of high prices here. Wilshaw Hermanos & Co. and Rose, Innes & Co., both houses of Valparaiso, Chili, are mentioned as being large purchasers of this material and other iron goods in that market.—N.Y. Journal of Commerce.

BUILDERS' HARDWARE PRICES.

The advance of 10 per cent. in builders' hardware prices, recently noted in these columns, has been followed by a number of conferences of manufacturers for the purpose of drawing up some scale of prices, as it was found that the horizontal advance of 10 per cent. was not altogether satisfactory. Further conferences will be held this week.

Henry R. Towne, president of The Yale & Towne Manufacturing Company, when seen on Saturday, repeated his former positive denial that any consolidation of interests was contemplated, stating that the discussions were solely concerned with price arrangements.—New York Journal of Commerce, May 23.

UNITED STATES IMPORTS OF TINPLATES.

The exports of tinplates from the United Kingdom to the United States during the month of April showed an increase of nearly 900 tons over those of March and were very nearly equal to the exports for April, 1898. The figures are as follows: April, 1899, 5,181 tons; March, 1899, 4,302 tons; April, 1898, 5,221 tons. The total shipments of British tinplates to this country in the first four months of the current year have amounted to 15,717 tons, as compared with 30,261 tons in the corresponding period of last year; so that the amount of foreign plates imported this year so far has been but little more than one-half that brought in a year ago. The increase last month is attributable, in some measure, to purchases of Welsh plates made at the time when a scarcity of the American product was

threatened and prices on this side were nearly on a parity with the price at which foreign plates could be laid down on the Atlantic seaboard. Since then the price of Welsh plates has advanced and the American mills are again making pretty free deliveries, so that the month of May is likely to show a falling off in the importation of the foreign product.—Metal Worker.

ENGLISH PIG IRON MARKET ADVANCING.

The increasing cost of pig iron is one of the most pressing problems of the moment in the steel industry. The average prices now being paid for pig are quite 10s. per ton above those of this time last year. The market is so excited and uncertain that it is impossible to say what trend prices may take during the next month or two. The fact is that both consumers and dealers have, to a considerable extent, been caught short, and hence there is more pressure on the market at the moment than is either usual or necessary. The legitimate demand for iron is, no doubt, large, but this is mainly for home requirements, and the volume of consumption in respect of export trade is less than usual. Producers are not unnaturally looking forward to higher prices, but it is evident that if the prices go much higher they will be likely to bring danger, and probably disaster, to the trade; so that it is to be hoped that the present range of prices will not be materially exceeded. Already, indeed, the situation is fraught with serious difficulty to all consumers of pig iron, and especially to steel manufacturers, who have to pay in the open market 10s. to 12s. per ton more than they did a year ago, not to speak of a rise of 60 to 75 per cent. in the cost of fuel and 20 per cent. in the cost of labor.—London Iron and Coal Trades Review.

THE SITUATION IN THE UNITED STATES.

The Iron Trade Review, Cleveland, of May 25, says: "Prices are still advancing in iron and steel, but the buying movement does not slacken. This is especially true of pig iron, in which there have been some large deals, besides a good aggregate of lesser sales. Producers of Bessemer iron in the Mahoning and Shenango valleys have sold 51,000 tons at \$16 to the leading Pittsburgh steel-maker, and it is now well known that the associated furnaces have much less iron to sell for delivery before January 1 than will be needed by steel works in that time over and above their own production.

"A meeting of valley furnacemen in Cleveland at this writing is expected to make a price of \$17 valley on a limited

amount of iron. The Republic Iron & Steel Co. have made a beginning of purchases of mill iron for the second half of the year, 25,000 tons of Southern being taken. Large requirements are yet to be provided for, and furnacemen are questioning how the iron is to be provided.

"The cast iron pipe consolidation is also about to enter the market. Malleable interests have been making inquiry and several blocks of iron are under negotiation. Chicago district sales have been fully 75,000 tons the past week, and this will be materially increased in the next fortnight.

"In general from 50 to 75c. a ton has been added to the price of foundry iron since the beginning of the month, and buyers who thought the prices of a month ago high, and likely to recede under increased production, are now paying current quotations to provide their supply for the balance of the year. Southern No. 2 is now \$12.50 Birmingham, and gray forge, \$11.25.

"Foundrymen are advancing prices of castings, but the movement is very uneven, and in most lines does not correspond as yet to the advance in iron. The billet situation is getting more acute, as is that in respect to pig iron. Sales at \$28 Pittsburg, and even higher, in small lots are reported. It is plain that converting capacity will be taxed to its utmost for the next six months."

SUMMER STOVES.

The time is now near at hand when the gas and gasoline stove should be exploited by the enterprising merchant for all that he and they are worth, remarks Stoves and Hardware Reporter. There are many considerations in the use of these stoves which should appeal strongly to the minds of the feminine portion of humanity. Comfort, convenience and safety are the three chief characteristics of the gas range, to which may be added cleanliness, and the latter is not an unimportant one in women's eyes. Many, however, hesitate to use the gas stove for fear the expense may be too great, but this difficulty has been happily settled, because it has been discovered that with care and forethought gas can be used very economically as a fuel. Therefore, housewives need no longer deny themselves the luxury of a convenient and cleanly method of cooking. A thrifty, sensible woman once took the trouble to investigate the matter and found the cost so nominal that no one need think it a piece of extravagance to use such a stove. On the other hand, gasoline is a fuel which is even cheaper, and though it is held in bad repute in some people's minds as dangerous, the writer believes that where proper care is taken no risk whatever is incurred.

IRON VERSUS STEEL SHEETS.

A CORRESPONDENT of Ryland's Iron Trade Circular of Birmingham, England, replying to a former letter on the subject of steel vs. iron galvanized sheets, writes as follows:

"I deny that the steel used for sheet making is chiefly basic steel. In South Staffordshire this may be the case, as the steel works there mainly make basic steel, but in South Wales, which is the centre of the steel sheet trade, practically the whole of the steel sheets are rolled from acid bars, and this disposes of Mr. Lester's argument that steel sheets are bad owing to the imperfection caused by the basic lining of the steel furnace or converter.

"I ask Mr. Lester to look, after pickling, at a batch of steel sheets and then at a batch of iron ones. The steel sheets he will see look like silver, with scarcely a speck of blemish upon them, while the iron ones of the usual corrugating quality are more or less covered with streaks and imperfections, upon which, of necessity, the coating must in a measure follow the faulty places in the iron sheet, and always render the iron sheet far inferior in perfection of coating to the so called steel one. I use the term "so-called steel" advisedly because, after all, steel is a misnomer in the case of the material used for sheet rolling, whether made in a Siemens furnace or a Bessemer converter, as the percentage of carbon is so low that it is simply ingot iron—very pure iron in fact—and pure iron is surely a better medium to receive a successful coating of zinc than the rubbish teeming with sulphur, cinder and phosphorus which mainly composes an iron sheet, and which, but for the scrap top and bottom (also very impure), would not take a coating of spelter at all.

"The supposed tendency to strip or peel upon properly galvanized steel sheets does not prevent American steel galvanized sheets from beating English iron ones out of the Canadian market, and yet fully half of these sheets are used upon roofs where they have to stand double seaming, when the tendency to excessive striping (if any) would be far more liable to show itself than in the mere act of corrugating. Swiss sheets also have to stand seaming, and yet German galvanized steel sheets beat the English iron ones, and will gradually, in my opinion, drive them out of even more valuable markets.

"I am old enough to remember that the same arguments were used when steel plates for shipbuilding and many other purposes supplanted iron ones, and yet the steel plate trade prospers, while the iron plate trade of the North of England and Scotland has enormously diminished. The iron boiler plate trade at that time was a particularly profitable trade in South Staffordshire, and

kept many plate mills there at work. Where is that trade now? It is but a mere shadow of its former self, and will gradually die out; so, also, will perish all those South Staffordshire sheet mills which neglect the signs of the times and continue to stick to iron sheets for galvanizing, until they some day awaken to the fact that their trade is practically gone and that the little left is not worth following."

FOOLISH SENTIMENT.

THERE is too much sentiment in business, says an exchange. The man who is sentimental in business rarely reaches a high pinnacle of success—he worries himself and his neighbors too. He makes mountains out of mole hills. He is like the chronic dyspeptic who looks at life through blue glasses. He is oversensitive when he should not be sensitive at all because sentiment has no part in the life of the energetic, successful, pushing man of business who believes that "business is business" pure and simple.

It comes to our notice that many grocers, who have excellent standing in the towns in which they live and do business, take it as a personal affront when they are asked for references as to their credit by some wholesaler from whom they wish to buy goods and who has no means of determining as to their credit, other than that of a simple request to the grocer to give him (the wholesaler) some information that will protect him in opening a credit account.

In nine cases out of ten, the average wholesaler or manufacturer in Canada is always glad to give credit to those who are entitled to it, because every transaction in

life is based on credit. Cash is only the adjusting medium. Mercantile life depends upon credit. Nations cannot exist without it. There is no man or body of men in the world who do not ask for credit constantly. And they get it, if they are entitled to it. If a stranger came into your store and asked for credit, would he get it? Place yourself then in the position of the wholesaler whom you approach for the first time and ask for credit. Place yourself outside of that circle of your business acquaintances who know that you always pay your bills promptly, and who are willing, yes, even anxious, to sell you goods on time. That is the position in which the wholesaler finds you whose letter you receive asking you for references as to your credit—can you blame him? Should you be sensitive because he makes the request? Wouldn't you do exactly the same thing yourself?

Try to understand credit. Prove that you are loyal, faithful, honest—prove it with the idea in mind that you are not compromising your dignity in doing it. "Foolish Sentiment" in business is often the stumbling block in the path which leads to success. Cultivate credit and always bear in mind that, by increasing your credit, you are increasing your capital. What your neighbors know about you and what the outside world knows are two widely different matters. Let the world know about you, if they take enough interest to ask—but don't be sentimental about it. The successful man is he who can use the circumstances surrounding him, whether they be favorable or unfavorable, to a profitable end.

Sommerfeld & Co., general merchants, Plumas, Man., have assigned to W. Antliff.



W

e have a single tube tire that the maker guarantees.

But, he made too large a stock.

We are selling his overplus to dealers.

There is no better tire chance than this

You will find all about it in Booklet 10.

Booklet 10 is just out. You ought to have it.

We sell every kind of Goodrich-Resflex Single Tube, every kind of G. & J. Detachable, and every kind of Morgan & Wright tires.

See the booklets.

American Tire Co., Limited,
164-166 King St. West, Toronto.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

A F. LAVERGNE, general merchant, Bellefleur, N.B., has assigned to sheriff of county for the benefit of the creditors.

John A. Bulmer & Co., lumber dealers, Montreal, have assigned.

L. E. A. Cholette has been appointed liquidator of The Alpha Rubber Co., Limited, Montreal.

Klaiman & Moldowan, general merchants, St. Jean Baptiste, Man., have assigned to S. A. D. Bertrand.

PARTNERSHIPS FORMED AND DISSOLVED.

The Guelph Foundry Co., Guelph, Ont., have dissolved.

Lefebvre & Laniel, carriagemakers, Valleyfield, Que., have dissolved.

Partnership has been registered by The Unity Cycle Works, St. Henri de Montreal, Que.

Saunders, McCartney & Corcoran, harness dealers, etc., have dissolved, Wm. McCartney retiring.

Carter & Steeves, general merchants, Hopewell Cape, N.B., have dissolved, C. L. Carter continuing.

Joseph A. Hogue and Joseph Jette have registered partnership under the style of Hogue & Jette, plasterers, Montreal.

George and James Bowles have registered partnership under the style of J. Bowles & Co, general merchants, Windsor Mills, Que.

Copartnership has been registered by Solomon and Hyman Ein under the style of Ein Bros., general merchants, Little Glace Bay, N.S.

Granville and Arthur S. Gilmour have registered partnership under the style of G. Gilmour & Sons, manufacturers of augers and bits, St. Paul, Que.

Elzear Roberge and Ludger Lavigne have registered as partners under the style of Roberge & Lavigne, general merchants, Notre Dame des Bois, Que.

SALES MADE AND PENDING.

The stock of the estate of D. J. McCosh, hardware dealer, etc., Lucan, Ont., has been sold.

CHANGES.

J. B. Wilson, general merchant, Kaslo, B.C., has removed to Anaconda, B.C.

Eli Levally, general merchant, Cascade City, B.C., has sold his hotel at Rossland.

Joseph E. Taylor has succeeded D. A. Kirkpatrick, general merchant, Rodney, Ont.

Herman Lafkvoitz, general merchant, Riviere a Pierre, Que., has removed to St. Tite.

Marie Louise Blanchette has registered as

proprietress of J. N. Potvin & Cie., general merchants, Richmond, Que.

R. Finlay, harness dealer, Elmvale, Ont., has sold out to A. L. Trace.

John Mercer, blacksmith, Chilliwack, B.C., has sold out to — Walker.

Magee & Freeze, tinsmiths, etc., St. John, N.B., have been succeeded by Freeze Bros.

Joseph W. R. Brunet has registered proprietor of The Laprairie Pressed Brick Co., Laprairie, Man.

A. N. Shaw, lumber dealer, Miami and Rosebank, Man., has sold out his Rosebank branch to Oscar McCullough.

Supplementary letters patent have been issued, increasing the capital stock of The Canadian Rand Drill Co., Sherbrooke, Que., to \$50,000.

DEATHS.

Andrew J. Morash, carriage builder, Cole Harbor, N.S., is dead.

Frank C. Caverhill, of Caverhill, Learmont & Co., wholesale hardware dealers, Montreal, is dead.

W. F. Campbell, of Emerson & Campbell, manufacturers of agricultural implements, etc., Tweed, Ont., is dead.

CANADIAN PRODUCTS WANTED.

The London, England, office of HARDWARE AND METAL advises that the following are some of the inquiries relating to Canadian trade received at the Canadian Government Offices, London, recently :

1. A linen and bedding firm wishes to correspond with a Canadian exporter of poultry, wild fowl and other feathers and downs.

2. An Irish wholesale house wishes to purchase flake oatmeal, and desires to be placed in communication with Canadian exporters.

3. Inquires have been received for birch cut in squares, for making bobbins ; birch in any lengths up to 1 ft. square, if it can be supplied cheaper than the smaller sizes at present being used. Other wood, such as oak and beech, if cheaper, might be quoted for instead of birch, so long as there is no bark on it.

4. Inquiry is made for the names of lumber firms who are prepared to quote for and supply large quantities of wood blocks suitable for paving purposes and railway sleepers.

5. A firm in Scotland, which claims to be in touch with the principal users of wood flour, asks for addresses of Canadian firms who are prepared to quote prices and submit samples.

6. A general agency firm in Warsaw, Russia, offers its services as agents for the sale of Canadian produce and manufactured goods. It points out that Warsaw is an important market for veneers, rolling boards,

etc., and is willing to furnish satisfactory references.

[Those who can furnish the desired information in regard to any of the above inquiries can have the same forwarded to destination through **HARDWARE AND METAL**.—The Editor.]

PROFIT IN LOST NOTES.

"It is a fact that, to many minds, no doubt, must be very curious, that the Bank of England has always had a pretty steady source of profit in the loss and destruction of its banknotes," says The London News. "What it has gained of late years in this way we are unable to say, but, during a period of 50 years preceding 1832, the bank had made a clear profit of £1,330,000 from outstanding paper never likely to be presented for payment. When the destruction or the irrecoverable loss of a note can be proved—as in the event of a fire or wreck it can—the bank, of course, will always pay the money it represents, and, even when there is doubt about it, the cash is paid, on security being given for indemnifying the bank should the note ever be presented. The £60,000 worth of paper—or £20,000, as it appears to have been reduced to—taken from Parr's bank will, therefore, not represent a loss unless the crisp little billets have some day to be honored at the Bank of England counter. In that case, the cash paid in exchange for them will have to come out of the coffers of the plundered bank."

SAW-EDGED SCISSORS.

Saw-edged scissors is one of the newest novelties, says The Boston Journal of Commerce. In general design they are identical with the scissors we know so well, but instead of a smooth cutting surface, each blade has an edge like the carpenter's saw. The sides of these teeth are shaped at an angle to the plane of movement of the blades, and also toward the end, the advantage being that the operation of cutting is made easier, an important item in handling heavy goods, and also that a clean, smooth cut is made at every operation. These blades are said to hold their edges much longer than the old straight-edge style.

INSPIRATION FOR PAINT AGENTS.

The Sherwin-Williams Co. is ever doing something original. The most recent evidence of this is the publication of a magazine for circulation among its agents. This makes the second magazine which the company publishes. The other, The Chameleon, is for circulation among the employees. The new publication bears the suggestive title of S. W. P., and is as bright as a well polished dollar, and is so full of information and inspiration for agents that it can scarcely fail to accomplish its mission.

BOLTS AND NUTS IN SCOTLAND.

United States Consul Rufus Fleming, Edinburgh, writes under date of March 20: Inquiry has been made at this consulate by a wholesale agent, handling largely bolts and nuts and like articles, for the name and address of a company or firm in the United States manufacturing bolts (round and square, countersunk heads) and cold-cut nuts. He wishes to obtain this particular combination for the Scottish market.

This business man informs me that the American manufacturers are now pushing the Germans very hard for the trade in bolts and nuts in the United Kingdom. The importation of these articles from the United States began about eighteen months ago. For many years, the German manufacturers had little or no foreign competition in these Islands for machine-made bolts and nuts; and the British manufacturers could only hold the market for the common square-head bolts. In 1897, bolts and nuts began to come from the United States, and the trade has been growing. Of late, it has been increasing rapidly. In this dealer's opinion, should there be no reduction in prices by the German and no increase of prices by the American manufacturers, the latter will soon get the bulk of the trade. The process of gaining the market would be easier, he says, if some of the American bolt and nut manufacturers did not persist in sending the goods in packages of 100 and of 50, although they know that it is the custom in the retail trade here to buy bolts and nuts by the gross and half gross.

SOFTENING COPPER TUBING.

A correspondent of The Metal Worker writes that journal as follows: I bought copper tubing recently and ordered it soft, but found it exceedingly hard, and would like to know if there is any way to soften it and make it more workable. Also please let me know what kind of grease to use in drawing soft copper in a drawing press.

This was the answer given: The copper tubing can be made soft by heating to a low red heat. This is best done in a charcoal fire with natural draft, so as to heat evenly by pushing the tube slowly through the fire and constantly turning it for an even heat. It can be made partially soft with a lower temperature, just red in a dark room or at night. The best grease for drawing copper is a mixture of tallow and lard oil nearly equal parts, melted together, so as to make a soft grease to handle.

The Bracebridge Herald says that the business men of that town express dissatisfaction with the action of the council in refusing the sum of \$100 towards the construction of a telephone line between Bracebridge and Orillia.

We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

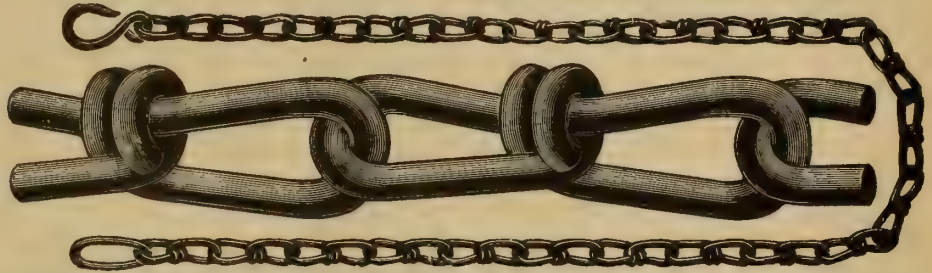
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IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

Syracuse Babbitt Metal

It's a Standard Quality

**Lasts Longer
Keeps Cooler
Requires Less Oil**

Than any other known
form of

BABBITT METAL.

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MONTREAL.

SYRACUSE, N.Y.

HEATING AND PLUMBING

TESTING LEAD TIN AND LEAD ANTIMONY ALLOYS.

JOSEPH RICHARDS, of Philadelphia, has brought to the attention of the Franklin Institute methods of testing certain alloys which are very interesting. We quote from this paper the following, prefacing it with the remark that photographs of two of the machines accompany the paper:

"It is well known that the bulk of the lead ores are contaminated with antimony, and in the refining of lead the antimony when at a dull red heat is rapidly oxidized and floats on the top of the molten metal as a scum, carrying particles of lead with it. This is removed as fast as formed, and in the course of 10 to 48 hours all the antimony is eliminated. It is very desirable in this process that the workman should know how he is progressing in his work; and in order to meet this demand I have made a series of tests of the relative weights of standard alloys of antimony and lead from pure lead up to 24 per cent. of antimony. At this point the lead is saturated, and if more than that quantity of antimony is present it will float on the top of the molten mass; so that a standard alloy of 24 per cent. of antimony is the highest that can be tested by an apparatus. I made castings of these alloys in a mold, took the average weight of ten of each grade, and the machine was marked to exactly balance at the line or weight given by the average test. This I continued from pure lead up to 24 per cent. antimony; thus a quick and reliable means is at hand, so that all the workman has to do is to carefully cast his bullet, place it on the balance, and it shows him at once the amount of antimony in the mixture. The following difficulty here arose: While antimony is lighter than lead, if a small amount of antimony is present (less than 2 per cent.), instead of making the bullet lighter, it is heavier than pure lead, and it is not until over 2 per cent. is present that its weight becomes less than that of lead. This difficulty I overcame by discovering that the physical properties of these alloys is such that if a small button is poured on a flat plate and allowed to cool, the surface is not at all like lead, but of a fine white crystalline appearance. So I have supplemented my test machine with a set of buttons of a known composition from 2 per cent. down to zero, changing composition by 1-10 per cent. in each button. I made the first button 2, the next 1 9-10 per cent., and so on down to pure lead.

"Thus, the operator can go on with his work until there is a perfectly lustrous surface, free from frost, and at this point the lead will be 998 fine or over. The practical value of these tests is shown by the fact that since I made the first machine for The National Lead Company their order has been duplicated six times.

"Another method of quick testing was needed for the alloys of lead and tin. When I commenced this business the only way I could find out the percentage of tin in solder, solder joints, pewter, and such like metals, of which we were buying hundreds of tons each year, was by chemical analysis, and I found this took several hours and required great care and much practice to get accurate results. The use of the specific gravity test was suggested to the writer by an old member of the Institute, G. H. Perkins, but the means employed were crude and unsatisfactory. So I again commenced with pure lead as a standard, taking 99 of lead to one of tin, and so on, until I got up to pure tin. I made over 2,000 tests, confirmed them by analyses of the metals used, and so made a set of standard weights, from which standards the scale now before you was marked, each mark being the average of about 20 tests, and is correct to the tenth of 1 per cent. I may here remark that the weight of these alloy bullets is, for some physical reason, different from the calculated specific gravities of the alloys, some being heavier and some lighter than the calculated weights. The machine before you has a graded beam, and the molds are, all made to an exact standard and are all interchangeable. If a firm lose or break a part of the machine, it can be easily replaced or a new mold procured. So that now, when we melt alloys of tin and lead, we do not even have to depend on accurate weighing of the metals to be melted, but test each pot and can check any error that the workman might have made in his weighing. So accurate is this test that a difference of one-quarter of 1 per cent. is easily detected, and my experience in my own laboratory and with samples sent to a number of good chemists is that I would every time prefer my test for practical purposes to that of the ordinary chemical laboratory.

"When we consider that many thousands of tons, roughly estimated at 75,000 of solder alone, are used in the arts every year, one may easily perceive how valuable a factor to the trade such a machine as this becomes, and it has been so recognized, for

at this time at least nine-tenths of all the smelting and refining works in the United States are using my machine. Also in the new industry of manufacturing roofing plates with tin and lead alloy coating, called terne plates, I find that I have supplied three-fourths of the plants with these machines; so that they may test and keep regular the proper percentage of tin and lead in their bath. Many large purchasers of solder find such a testing machine indispensable to protect themselves from lower grade metals than they pay for. This simple, accurate and altogether satisfactory method of testing is, therefore, now in common use.

"In my machine for testing roofing plates, the beam is so adjusted that a piece of the sample plate exactly cut to template size and then weighed on the scale gives the weight of a box of 20 x 28 plate in pounds. For instance, if the plate cut shows a weight of 220 lb., that is the weight a box of plate would be with the coating on it. This piece of plate is then heated over a Bunsen burner till the coating melts, then wiped clean, heated again and wiped till no more metal is on the surface. When the surface is blue all over, showing that all the coating is removed, weigh it again. If it now weighs 200 lb., this will be the weight of the black plate per box, and the difference between the two weighings is the weight of the coating in pounds."

PLUMBING AND HEATING CONTRACTS.

Fiddes & Hogarth, plumbers, Toronto, have contracts for plumbing and draining in a hotel in the Muskoka district for Patter-son & Paisley; for plumbing in the No. 4 police station, Toronto; for plumbing and heating in the new hotels at 39 Yonge street and at the corner of King and Church streets; for plumbing and heating in two large houses on Admiral road for W. A. Bradshaw, and for residences on Queen, King and Breadalbane streets, Toronto.

The Bennett & Wright Co., Limited, plumbers, Toronto, have contracts for plumbing in a residence on Lake St. Joseph Muskoka district, for Mr. Foreman, of Buffalo; for plumbing and heating for three houses on the Macpherson estate, Rosedale; one on Maple avenue, for W. P. Gundy; one on St. George street, for C. Evans; two on Sackville street, for J. J. Brown; one at 181 Jameson avenue, for J. Clemes; one at 188 Jameson avenue, for Wm. G. Dean, and for plumbing and heating in the new office

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SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

HE USES

Heintz Traps. *Ref. May 30 1910*

They save his steam, his fuel, his money, and are so effective

For Steam Heating or Power Plants.

The Jas. Morrison Brass Mfg. Co.
Toronto. Limited
Engineers' and Plumbers' Supplies.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

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Manufacturers of

All sizes of Hot Pressed Nuts, Square and Hexagon

The

CARPENTER

GRASS HOOK.

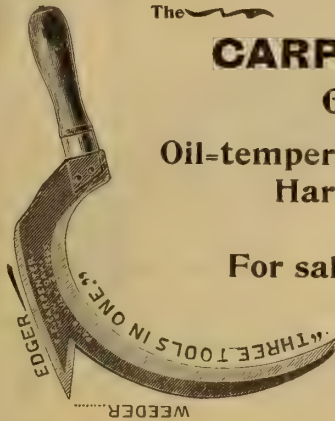
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

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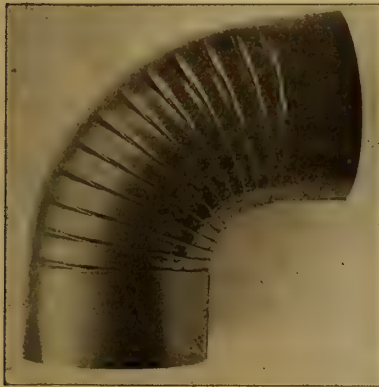
Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.



FOR FOUR YEARS WE HAVE MADE

The Flat Crimp One-Piece Elbow

for which our rapidly increasing sales are the best evidence of its popularity.

This is why it is a **winner**: **Long** in the **Throat**, makes neatest work; **Flat** in the **Crimp**—easily cleaned, holds no dirt, either inside or out; **Adjustable**, readily fitting all makes of **pipe**, saving time and labor in putting up, therefore most economical; **specially crated**, insuring delivery in perfect condition. Made of Russia Iron and dark blue steel. Cheap as the cheapest. Be sure you get "**DAVIDSON'S**," then you get the **best**.

THE THOS. DAVIDSON MFG., CO., Limited, MONTREAL, P.Q.

Ride Good Tires



**Samson
New York
C. R. Co.**

} **Tires are Good Tires.**

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

buildings at 17 and 19 Toronto street, for The Consumers' Gas Co.

The John Ritchie Plumbing and Heating Co., Limited, have contracts for plumbing and heating in a residence on Pembroke street, and for two stores on Queen street west.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to The Toronto Conservatory of Music for a three-storey brick addition to the Conservatory building at the corner of University avenue and College street, to cost \$9,000; to The Gold Medal Furniture Manufacturing Co., for a two-storey rough-cast factory and drying kiln near Vanhorne street, on the east side Hamburg, to cost \$1,500; to A. E. Hill, for a two-storey and attic brick store near King street, on Wilson avenue, to cost \$1,900; to The Langmuir Manufacturing Co., for a three-storey brick factory and office building at the corner of Niagara and King streets, to cost \$8,000; to Mrs. Davies, for a workshop at the rear of 212 Bathurst street, to cost \$1,200; to The Wm. Davies Co., for a two-storey brick addition and alterations to 22 and 24 Queen west, to cost \$4,000; to The Confederation Life Assurance Co., for alterations to two store fronts at 1278 and 1280 Queen west, to cost \$3,000.

PLUMBING AND HEATING NOTES.

Wm. McMaster, Ridgetown, Ont., is advertising his plant for sale.

The stock of Lafrance & Lariviere, plumbers, Montreal, has been sold at 36c. on the dollar.

McLennan & McFeely, hardware dealers, Vancouver, intend erecting two four-storey buildings each 50x132 feet.

Tenders have been asked in Prince Albert, N.W.T., for the erection of a new \$9,000 school. According to the plans it will be one of the handsomest schools in the Territories. It will be an eight-roomed, two-storey brick building, heated throughout by furnaces.

THE TORONTO PLUMBERS.

The attendance at the regular monthly meeting of the Toronto Master Plumbers and Steamfitters' Association was the largest for years. President Wilson occupied the chair.

The convention of the National Association, which is to be held in Ottawa this year, was discussed, and Messrs. Wilson, Mansell, Meredith and Wright were appointed to represent the Toronto association at the gathering.

Best Crucible Steel.

MCCLELLAN FILES

Fully Warranted.



Sold by CANADA HARDWARE CO., LIMITED, MONTREAL, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade

REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO.,

Gooderham Building,

Toronto



Geo. D. Wood & Co.

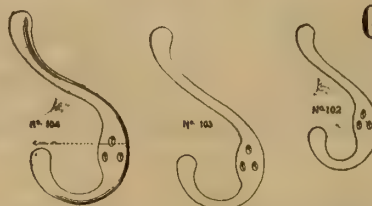
WINNIPEG, MAN.

Importers of and Dealers in
**SHELF AND
HEAVY**

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now complete in seasonable lines. Prompt shipment.

Letter orders receive special attention.



Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.

THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220 1/2 Board of Trade, MONTREAL.



Nobles & Hoare.

CORNWALL ROAD STAMFORD STREET.

LONDON, ENG.

Manufacturers of

HIGH-CLASS VARNISHES ONLY

Which can be obtained direct from the works or from the principal Color Dealers in Canada.

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Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates Galvanized Sheets, Imitation Russia Sheets, Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

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THE MCKINNON BUILDING
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... TORONTO

Telephone 689.
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1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Doubletrees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction: All stock air-dried, not kiln-dried. If you are going to be in it, place your order with

GARDNER BROS. & CO**ARE YOU A BUYER OF****Hardware, Metals,
Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
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**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.



PATENTED.

Standing Seam and Slate Roof**SNOW SHOE IRONS**

No snow rails need be used unless desired.
The lugs clinch through the seam easily
but securely. Send for catalogue.

**Berger Bros. Co.,**

Mfrs. of TINNERS' HARDWARE AND ROOFERS' SUPPLIES,

Philadelphia, U.S.A.

STEVENS RIFLES**THE FAVORITE**

is made in three calibres
22, 25 and 32 Rim Fire

and is the best low-priced rifle made Highest quality of work.
Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
No. 18, Target Sights— " 11.50
No. 19, Lyman Sights— " 12.00



Send for our complete catalogue.

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
MASS., U.S.A.

**A Lasting
Friend**

The better you know the Virtues of that permanent and sanitary wall and ceiling coating, Church's "Alabastine" (never sold in bulk), the closer your friendship becomes—it is a "lasting friend." Each one of the 16 beautiful tints (and White) hardens with age after it is applied, while all kalsomines or substitutes must decay, and are unsanitary. And, too, wall paper

is but a temporary make-shift—you have to repaper constantly. If you can't get at your painter, you can apply Alabastine yourself with a little care, some cold water and a brush. It is "a lasting friend", but be sure you get Church's

**Alabastine For
Walls**

For sale by paint dealers everywhere

Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited) Paris, Ontario**HUTCHISON, SHURLY & DERRETT**

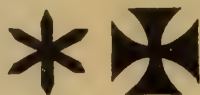
**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared to furnish the best made goods in the market at closest prices and make prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,**Cotton and Russian Hemp Plough Lines, plain and colored.****Cotton and Linen Fish Lines, laid and braided.****Netted Hammocks, white and colored, Tennis and Fly Nets.****Skiping Ropes, Jute, Hemp and Flax Twines.**

CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS

May 26, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—	
56 and 28 lb. ingots, per lb.	0 29
Straits	0 28½

Tinplates.

Charcoal Plates—Bright.	
M.L.S., equal to Bradley.	Per box.
I.C., usual sizes	\$5 50
I.X., "	6 75
I.X.X., "	8 00
R. & Co.—	
I.C.	4 75
I.X.	6 00
I.X.X.	7 25

Famous—	
I.C.	5 00
I.X.	6 25
I.X.X.	7 50

Raven & Vulture Grades—	
I.C., usual sizes	4 00
I.X.	4 75
I.X.X.	5 50
I.X.X.X.	6 25
D.C., 12½x17	3 51
D.X.	4 25
D.X.X.	6 25

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Beasmer Steel—	
I.C., usual sizes	3 40
I.C., special sizes, base.	3 50
20x28.	7 00

Charcoal Plates—Terne.

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	6 75
I.X., Terne Tin	8 25
I.C., Orion	
I.X., Orion	

Charcoal Tin Boiler Plates.

Cookley Grade—	
X.X., 14x56, 50 sheet bxs	Per lb.
" 14x60 "	0 05½ 0 06
" 14x65 "	

Tinned Sheets.

72x30 up to 24 gauge.	0 06
" 26 "	0 06½
" 28 "	0 07½

Iron and Steel.

Common Bar, per 100 lbs	1 70
Refined	1 75
Horse Shoe	1 85
Hoop steel, 1½ to 3 in. base,	
extras for smaller sizes	2 60
Swedish	4 00
Sleigh Shoe Steel " base	2 50
Tire Calk Steel	2 50
Machinery	2 65
Cast Steel, per lb	0 10
Toe Calk Steel	2 95
Toe Weight Steel	6 10
Thos. Firth & Sons' Cast Steel	0 12
Russian Sheet, per lb	0 10½
Tank Plates, 1½ and thicker.	2 00
Boiler Rivets	4 50

Boiler Tubes.

1½-inch	0 11
2 "	0 12
2½ "	0 14

Steel Boiler Plate.

¾ inch	3 25
--------	------

3-16 inch	3 40
¾ inch and thicker	3 25

Black Sheets.

18 gauge	2 40
20 "	2 50
22 to 24 "	2 55
26 "	2 65
28 "	2 85

Canada Plates.

All dull, 52 sheets	2 50
Half polished	2 60
All bright	3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,	
\$3.10; ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch,	
\$4.85; 1½ inch, \$6.50; 2 inch, \$8.00; 2½ inch,	
\$11.00. 2½ to 6 inch, discount 60 p.c.	
Galvanized, ¾ inch to ½ inch, \$3.75; ¾	
inch, \$7.00; 1 inch, \$9.85; 1½ inch, \$14.00;	
1½ inch, \$17.00; 2 inch, \$24.50.	

Galvanized Iron.

16 gauge	3 85
18 to 24 gauge	4 00
26 "	4 25
28 "	4 50
Less than case lots, 25c. per 100 lb. additional	

Chain.

Proof Coil, 3-16 in., per 100 lbs	6 90
" ¼ "	4 40
" 5-16 "	4 00
" ¾ "	3 80
" 7-16 "	2 75
" ½ "	3 55
" ¾ "	3 45
Trace, per doz. pairs	3 60
Jack chain, iron, single, per	
doz. yards	0 13
Jack chain, double, per doz.	
yards	0 15
Jack chain, brass, single, per	
doz. yards	20 10

Copper.

English B. S., ton lots	0 19
Lake Superior	0 19½
Bolt or Bar.	
Cut lengths, round, ½ to ¾ in.	0 23
round and square	0 24
1 to 2 inches	0 23

Sheet.

Untinned, 14 oz., and light, 16	
oz., 14x48 and 14x60	0 23
Untinned, 14 oz., and light, 16	
oz., irregular sizes	0 23
NOTE.—Extra for tinning, 2 cents per	
pound, and tinning and half planishing 3	
cents per pound.	
Tinned copper sheets	0 26
Planished	0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb.	0 25
" 35 to 45 "	0 24
" 50-lb. and above, "	0 23

Boiler and T. K. Pitts.

Plain Tinned, per lb	0 28
Spun, per lb.	0 32

Brass.

Roll and Sheet, 14 to 30 gauge, net list.	
Sheets, hard-rolled, 2x4	0 24
Tubing, base, per lb.	0 24

Zinc Spelter

Foreign, per lb	0 07½
Domestic	0 07

Zinc Sheet.

cwt. casks	0 08½
Part casks	0 08½

Lead.

Imported Pig, per lb	0 04½
Domestic, per lb	0 04½
Bar, 1 lb.	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05
Sheets, 3 to 6 lbs., per sq. ft.,	
by roll	0 04½
NOTE.—Cut sheets ½ cent. per lb. extra	
Pipe, by the roll, usual weights per yard, lists	
at 7 cents per lb. and 17½ per cent. discount	
NOTE.—Cut lengths, net price, waste pipe	
8-ft. lengths, lists at 7½ cents.	

Shot.

Net list; no discount.	
Soil Pipe.	
Discount, 60 per cent.	

Soldier.

Bar half-and-half	0 17
Refined	0 16½
Wiping	0 16
NOTE.—Prices of this graded according to	
quantity. The prices of other qualities or	
solder in the market indicated by private	
brands vary according to composition.	

Antimony.

Cookson's, per lb	0 11
White Lead.	0 11½

Pure, Assoc. guarantee, ground in oil,	
25 lb. irons	6 1½
No. 1 do	5 74½
No. 2 do	5 37½
No. 3 do	5 00
No. 4 do	4 62½
Robertson's Chemically Pure	6 12½
Munro's Select Flake White	6 37½
Elephant and D.B. Genuine	6 12½
Brandram's B. B. Genuine	8 12½
Jame genuine	7 25
No. 1.	7 20
No. 2.	6 75

White Zinc Paint.

Pure White Zinc	0 08
Pure, kegs	0 08
No. 1.	0 06
No. 2.	0 05

Dry White Lead.

Pure, casks	0 04½
Pure, kegs	0 04½
No. 1, casks	0 04½
No. 1, kegs	0 04½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)	
Pure, per gallon	1 00
Second qualities, per gallon	0 90
Barn (in bbls.)	0 70
The Sherwin-Williams Paints	1 20
Canada Paint Co's Pure	1 00
Robertson's Pure	1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)	
Venetian Red, per lb	0 07
Chrome Yellow	0 11
Golden Ochre	0 06
French	0 05
Marine Black	0 09
" Green	0 09
Chrome	0 08
French Imperial Green	0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per	
cwt	1 35
Yellow Ochre (J.F.L.S.), bbls.	
per cwt	2 75
Yellow Ochre (Royal), per	
cwt	1 10
Brussels Ochre	1 15
Venetian Red (best), per cwt.	2 00
English Oxides, per cwt.	1 80
American Oxides, per cwt.	3 00
American Oxides, per cwt.	1 75

Canadian Oxides, per cwt.	1 75
Burnt Sienna, pure, per lb.	0 10
Umber,	0 10
do aw	0 09
Drop Black, pure	0 09
Chrome Yellows, pure	0 18
Chrome Greens, pure, per lb.	0 12
Golden Ochre	0 03½
Ultra marine Blue in 28-lb.	
boxes, per lb.	0 08
Fire Proof Mineral, per 100 lb.	1 00
Genuine Eng. Litharge, per lb	0 07
Mortar Color, per 100 lb.	1 25
James' Gen. Red Lead, 100 lb	0 04½
Pure Indian Red, No. 45, lb.	0 08
Whiting, per 100 lb.	0 50

Paris Green.

250 lb. casks	0 13½
50 lb. drums	0 14
1 lb. packages	0 18
1-lb. tins	0 15½

Sulphate of Copper.

Casks, for spraying, per lb.	0 06
100-lb. lots, do. per lb.	0 07

Putty.

Bladders in bbls.	1 80
Bladders in 100 or 200 lb. kegs or bxs	1 95
Bulk in bbls., per 100.	1 65
Bulk in less quantities	1 80
25-lb. tins, 4 in case	2 05
12½-lb. tins, 8 in case	2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.	
extra Hamilton, London, Guelph. For quan-	
ties less than 100-lbs., 2½c. per lb.	

Varnishes.

(In bbls.)	
Carriage, No. 1	per gal
Extra do.	0 90
Body Varnish	1 03
Furniture Varnish	4 00
Extra do.	0 45
Demar Varnish	0 80
Hard Oil Finish	1 40
Orange Shellac Varnish	1 10
White Shellac	1 90
Rubbing Varnish	2 40
Brown Japan	0 70
Elastic Oak	0 90

Linseed Oil.

Raw, per gal. net	0 52
Boiled, per gal. net	0 55
Outside points 1c. more than above figures	

Turpentine.

to 4 barrels, net	0 63
Outside points 1c. more	

Castor Oil.

In cases, per lb	0 09
Small lots	0 10

Cod Oil, Etc.

Cod Oil, per gal.	0 50
Pure Olive	1 20
" Neatsfoot	90

Glue.

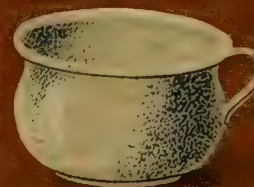
(In bbls.)	
Common	0 08½
French Medal	0 12
Cabinet, sheet	0 11
White, extra	0 16
Gelatine	0 22
Strap	0 16
Coopers	0 19
Al clear	0 09

HARDWARE.

Ammunition.

Cartridges.	
R. B. Caps, Dom., 50 and 5 per cent.	
Rim Fire Pistol, dia. 45 p. c., Amer.	
Rim Fire Cartridges, Dom., 50 and 5 p. c.	
Rim Fire, Military, net list, Amer.	
Central Fire Pistol and Rifle, 18 p. c. Amer.	

HOOKS.			NETTING.			SASH WEIGHTS.					
Cast Iron.			Poultry, 50 and 5 per cent. for McMullen's.			Sectional, per 100 lbs. 1 40			Copper tacks. 50		
Bird Cage, per doz.	0 50	1 10	OIL.			Solid, " 1 25			Copper nails. 52½		
Clothes Line, per doz.	0 27	0 63	Canada refined (Toronto).... 0 13½			SAWS.			Trunk nails, black and tinned. 70 and 12½		
Harness, per doz.	0 72	0 88	Sarnia Water White 0 15			Hand, Disston's, dis. 12½ to 15 p.c.			Clout nails, blued and tinned. 70 and 10		
Hat and Coat, per gross.	1 00	3 00	Prime Water 0 14			S. & D., 40 per cent.			Chair nails 40		
Chandelier, per doz.	0 50	1 00	American w. w. 0 16½			Crosscut, Disston's, per ft. 0 35			Cigar box nails 45		
Wrought Iron.			Pratt's Astral. 0 18			S. & D., dis. 35 p.c. on Nos. 2 and 3.			Patent brads 45		
Wrought Hooks and Staples, Can., dis. 47½ per cent.			OILERS.			Hack, complete, each. 0 75			Fine finishing 45		
Wire.			McClary's Model galvan. oil can, with pump, 5 gal., per doz. 0 00			" frame only. 0 75			Picture frame points 25		
Hat and Coat, discount 60 per cent.			Zinc and tin, dis. 50, 50 and 10. 1 25			SAW SETS.			Lining to ks. in papers 10		
Belt, per 1,000. 0 63		0 70	Copper, per doz. 1 50			" Lin oln, " per doz. 5 50			" " in bulk 30		
Screw, bright, dis. 65 and 10 per cent.			Brass, 1 50			SCALES.			" solid heads, in bulk. 10		
HORSE NAILS.			Malleable, dis. 25 per cent.			Gurney Scales, 50 p.c.			Tufting buttons, 22 line, in dozens only 15		
"C" brand 50 p.c. dis.			PAIS.			B. S. & M. Scales, 50 p.c.			Tin capped trunk nails. 60		
"M" brand 50 p.c.			Galvanized, straight pattern per doz.			Champion, 60 per cent.			Zinc glazier's points. 5		
"P. B.", dis. 50 p.c.			No. 12 2 00			Fairbanks Standard, 45 p.c.			Double pointed tacks. 85 and 20		
Acadian, 50 and 20 p.c., countersunk head.			Galvanized, straight pattern No. 14. 2 25			" Dominion, 6 p.c.			TAPE LINES.		
HORSESHOES.			Galvanized, straight pattern No. 16. 2 55			" Richelieu, 60 p.c.			English, ass skin, per doz. 2 75		
F.O.B. Toronto.			Flaring pattern, No. 11. 2 25			Chatillon Spring Balances, 25 p.c.			English, Patent Leather. 5 50		
No. 2 and No. 1.			" " No. 12. 2 50			SCREENS.			Chesterman's each. 0 90		
and larger.			" " No. 13. 2 85			Door, patent per doz. 6 00			" steel, each 0 80		
smaller.			" " No. 14. 3 30			Window, per doz. 2 00			THERMOMETERS.		
Iron Shoes.			PICKS.			SCREW DRIVERS.			Tin case and dairy, dis. 75 to 75 and 10 p.c.		
Light, medium, and heavy. 3 50		3 75	Per doz. 6 00			Sargent's, per doz. 0 65			TINWARE.		
Snow shoes. 3 75		4 00	PICTURE NAILS.			SCREWS.			Stamped, dis., Assn. list, 80 per cent.		
Steel Sho.s.			Porcelain head, per gross. 1 40			Wood, F. H., iron, and steel, 82½ and 5 p.c.			Japanned, prices on application.		
Light 3 75		4 00	Brass head, 0 40			Wood R. H., " dis. 75 and 5 p.c.			Pieced, prices on application.		
Featherweight (all sizes). 5 00		5 00	PLANES.			Wood R. H., " dis. 67½ and 5 p.c.			TRANSOM LIFTERS.		
ICE PICKS.			Wood, bench, Canadian dis. 55 per cent.			" F. H., bronze, dis. 67½ and 5 p.c.			Payson's per doz. 2 60		
Star, per doz. 3 00		3 25	American dis. 55. 37½			" R. H., " dis. 62½ and 5 p.c.			TRAPS. (Steel.)		
KETTLES.			Wood, fancy Canadian or American, 37½ to 40 per cent.			Drive Screws, 82½ and 5 per cent.			Game, Newhouse, dis. 40 p.c.		
Brass spun, 7½ p.c. dis. off new list.			Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.			Bench, wood, per doz. 3 25			Game, H. & N., P. S. & W., 65 p.c.		
Copper, per lb. 0 30		0 35	Miscellaneous, dis. 25 to 27½ per cent.			" iron, 4 25			Game, steel, 72½, 75 p.c.		
American, 60 and 10 to 65 and 5 p.c.			Bailey's Victor, 25 per cent.			SCYTHES.			TROWELS.		
KEYS.			PLANE IRONS.			Discount, per doz. net. 4 50			Disston's, discount 10 per cent.		
Lock, Can., dis., 50 p.c.			English, per doz. 2 00			Canadian, dis. 50 p.c.			German, per doz. 4 75		
Cabinet, trunk, and padlock, am. per gross. 60			PLIERS AND NIPPERS.			SCYTHE SNATHS.			Brade's " 5 00		
KNOBS.			Button's Genuine, per doz pairs, dis. 37½			Seymour's, dis. 50 and 10 p.c.			S. & D., discount 35 per cent.		
Door, japanned and N. P., per doz. 0 90		0 90	40 p.c. 5 00			Heinisch, dis. 50 and 10 p.c.			TWINES.		
Bronze, Berlin, per doz. 2 75		3 25	German, per doz. 0 60			Clausa, full nickel, 50 and 10 p.c.			Bag, Russian, per lb. 0 21		
Bronze Genuine, per doz. 6 00		9 00	PULLEYS.			" japanned handles, 67½ p.c. off.			Wrapping, mottled, per pack. 0 50		
Shutter, porcelain, F. & L. screw, per gross. 1 30		4 00	Hotthouse, per doz. 0 55			Seymour or Heinisch tailor shears. 15 p.c.			Wrapping, cotton, per lb. 0 17		
KNIVES.			Axle 0 22			SHOVELS AND SPADES.			Mattress, per lb. 0 33		
Clau's bread, cake, and paring knives, \$7 00 doz. sets net. to 10 per cent.			Screw 0 27			Canadian, dis. 40 and 5 per cent.			Staging, " 0 27		
Christie, brea l, cake and paring knives, \$7 00 doz. sets, with 10 p.c. off.			Awning. 0 35			SNAPS.			Broom, " 0 30		
Hay knives, spear point, L. or T handle, 60 10 and 5 per cent.			PUMPS.			Harness, German, dis. 35 to 37½ p.c.			VICES.		
Lightning, per doz. 6 50		8 40	Canadian cistern. 1 40			Acme 3 00			Hand, per doz. 4 00		
Health's, \$7.75 net.			Canadian pitcher spout. 1 15			Lock, Andrews'. 4 50			Bench, parallel, each 2 00		
LANTERNS.			PUNCHES.			SOLDERING IRONS.			Coach, each. 6 00		
Cold Blast, per doz. 7 00			Saddlers, p-r doz. 1 00			2 lb., per lb. 0 30			Peter Wright's, per lb. 0 12		
LEMON SQUEEZERS.			Conductors, " 9 00			lb., " 0 33			Pipe, each. 5 50		
per doz.			Tinners' solid, per set. 0 00			WROUGHT SPIKES.			Saw, per doz. 6 50		
Porcelain lined. 2 20		5 60	" hollow, per inch 0 00			Discount, 35 to 40 per cent.			WIRE.		
Galvanize t. 1 87		3 85	RAKES.			SQUARES.			Brass and copper wire, 10 per cent. advance on the list		
King, wood. 2 75		2 91	Cast steel and malleable Canadian, list dis. 61, 10 and 5 p.c. revised list.			Iron, per doz. 1 65			Smooth Steel Wire, base, \$2.50 f.o.b. factory		
King, glass 4 00		4 50	Wood, 25 per cent.			Steel, dis. 70 per cent., revised list.			List of extras: Nos. 2 to 5, advance 7c. per 100 lb.—Nos. 6 to 9, base—No. 10, advance 7c.—No. 11, 14c.—No. 12, 20c.—No. 13, 35c.—No. 14, 47c.—No. 15, 60c.—No. 16, 75c. Extras net per 100 lb.:		
All glass. 1 21		1 30	RASPS AND HORSE RASPS.			Try and bevel, dis. 50 to 52½ p.c.			Coppered wire, 60c.—tinned wire, 82c.—oiling, 10c.—special hay-tailing wire, 3c.—spring wire, 1c.—test steel wire, 75c.—bright soft drawn, 15c.—in 50 and 100-lb. bundles net, 1c.—in 25-lb. bundles net, 1c.—packed in casks or cases, 15c.—bagging or papering, 10c.		
LINES.			New Nicholson horse rasp, discount 60 p.c.			STAPLES.			Fine Steel Wire, discount 25 per cent. factory.		
Fish, per gross. 1 05		2 50	Globe File Co.'s rasps, 60 and 10 to 70 p.c.			Bright 2 75			List of extras: In 100-lb. lots: No. 17, 85c.—No. 18, \$5.50—No. 19, \$6—No. 20, \$6.65—No. 21, \$7—No. 22, \$7.30—No. 23, \$7.65—No. 24, \$8—No. 25, \$8.30—No. 26, \$9.50—No. 27, \$10—No. 28, \$11—No. 29, \$12—No. 30, \$13—No. 31, \$14—No. 32, \$15—No. 33, \$16—No. 34, \$17. Extras net—tinned wire—Nos. 17-25, \$2—Nos. 26-31, \$4—Nos. 32-34, \$8. Coppered, 5c.—oiling, 1c.—in 25-lb. bundles, 15c.—in 50 and 100-lb. bundles, 25c.—in 1-lb. hanks, 50c.—in ¼-lb. hanks, 75c.—in ½-lb. hanks, \$1—packed in casks or cases, 15c.—bagging or papering, 10c.		
Chalk " 1 90		7 40	Heller's Horse rasps, 50 to 50 and 5 p.c.			STOCKS AND DIES.			Galvanized Wire, per 100 lb.—Nos. 6, 7, 8, \$3.40—No. 9, \$2.90—No. 10, \$3.50—No. 11, \$3.55—No. 12, \$3.05—No. 13, \$3.15—No. 14, \$3.90—No. 15, \$4.50—No. 16, \$5.15.		
LOCKS.			RAZORS.			American dis. 25 p.c.			Broom Wire, per lb. 0 05		
Canadian, dis. 50 p.c.			Geo. Butler & Co.'s, per doz. 8 00			Washita. 0 28			Clothes Line Wire, 19 gauge, per 1,000 feet. 2 75		
Russell & Erwin, per doz. 2 00		2 20	Roker's 7 50			Hindostan. 0 06			WIRE FENCING.		
Cabinet.			Wade & Butcher's 3 60			slip. 0 09			F.O.B. Toronto		
Eagle, dis. 30 p.c.			Theile & Quack's 7 00			Labrador. 0 13			Galvanized, 4 barb, 2¼ and 5 inches apart. 3 05		
Padlock.			RIVETS AND BURRS.			" Axe. 0 53			Galvanized, 2 barb, 4 and 6 inches apart. 3 05		
English and Am., per doz. 50		6 00	Carriage, Section, Wagon Box Rivets, etc. (Steel), 60 p.c.			Turkey 0 15			Galvanized, plain twist. 3 05		
Scandinavian. 1 00		2 40	Carriage, Section, Wagon Box Rivets, et (Norway Iron), 55 p.c.			Arkansas 0 00			Terms. 2 per cent. in 10 days.		
Eagle, dis. 15 to 17½ p.c.			Black M Rivets (Steel), 60 p.c.			Water-of-Ayr 0 00			WIRE CLOTH.		
MACHINE SCREWS.			Extras on Iron Rivets in 1-lb. cartons, ½c. per lb.			Scythe, per gross 3 50			Painted Screen, per 100 sq. ft., net. 1 50		
Iron and Brass.			Extras on Iron Rivets in ½-lb. cartons, 1c. per lb.			Grind, per ton 15 00			WRENCHES.		
Flat head, discount 25 p.c.			RIVET SETS.			Stove Polish.			Acme, 35 to 37½ per cent.		
Round Head, discount 20 p.c.			Canadian, dis. 35 to 37½ per cent.			Enameline			Agricultural, 70 to 70 and 10 p.c.		
MALLETS.			ROPE, ETC.			No. 4—3 dozen in case, net cash \$4 50			Standard, dis. 60, 60 and 10 per cent.		
Tinsmiths', per doz. 1 25		1 50	7-16 in. and larger, per lb. 10½			No. 6—3 dozen in case, " 7 50			Coe's Genuine, dis. 30 to 32½ p.c.		
Carpenter's', hickory, per doz. 1 25		3 75	¾ in. 11			STEP LADDERS.			Diamond dis. 33½ to 75 per cent.		
Lignum Vitae, per doz. 3 85		5 00	¼ and 5-16 in. 11½			Best grade, from 3 to 10-ft. long, per foot, 16c.			Towers' Engineer, each. 2 00		
Caulking each. 60		2 00	Russia Deep Sea 13			2nd grade, 3 to 10-ft., per foot, 10c.			S, per doz. 5 80		
MATTOCKS.			Jute 6¾			TACKS BRADS, ETC.			G. & K. Pipe, per doz. 3 00		
Canadian, per doz. 8 50		10 00	Lath Yarn 8¾			Per cent.			Burrell's Pipe, each. 3 00		
American, 60 and 10 p.c. off 1st.			New Zealand Rope. 9¾			Sheebsy box tacks, blued 75 and 10			Pocket, per doz. 0 25		
MEAT CUTTERS.			RULES.			Cheese-box tacks, blued 85 and 10			WRINGERS.		
American, dis. 30 to 32½ p.c.			Boxwood, dis. 75 and 10 p.c.			Trunk tacks, blued and tinned. 85 and 10			Leader, per doz. \$60 00		
German, 15 per cent.			Ivory, dis. 37½ to 40 p.c.			Carpet tacks, black and tinned. 80 and 10			Royal Canadian 58 00		
MILK CAN TRIMMINGS.			SAD IRONS.			Cut tacks, blued, in dozens only. 75 and 12½			Royal American 48 00		
Discount, 25 and 10 per cent.			Mrs. Potts, per set. 0 67½			¼ weights 60			Discount, 45 per cent.; terms 4 months, or 3 p.c. 30 days. Prices are f.o.b. London, Hamilton, Toronto, Brockville or Montreal.		
NAILS.			" N. P., per set. 0 80			Swedes, cut tacks, blued and tinned—In bulk 80 and 20					
Quotations are:			SAND AND EMERY PAPER.			Swedes, upholsterers', bulk. 85 and 10					
2d. and 3d. \$2 05		\$3 55	Dominion Flint Paper, 47½ per cent.			" brush, blued and tinned, bulk. 50					
31 2 70		3 20	B & A. sand, 40 and 2½ per cent.			" gimps, blued tinned & japanned 75					
4 and 51. 2 65		2 95	Emery, 40 per cent.			Zinc tacks. 30					
6 and 7d. 2 45		2 85	SASH CORD.			Leather carpet tacks. 60					
10 and 12d. 2 20		2 70	Per lb. 0 20								
16 and 20d. 2 15		2 65									
30, 40, 50 and 60d. (base). 2 10		2 60									
Steel Cut Nails 10c. extra.		2 05									
NAIL PULLERS.											
German and American. 1 85		3 50									
NAIL SETS.											
Square, round, and octagon, per gross 3 38		4 00									
Diamond 12 00		15 00									



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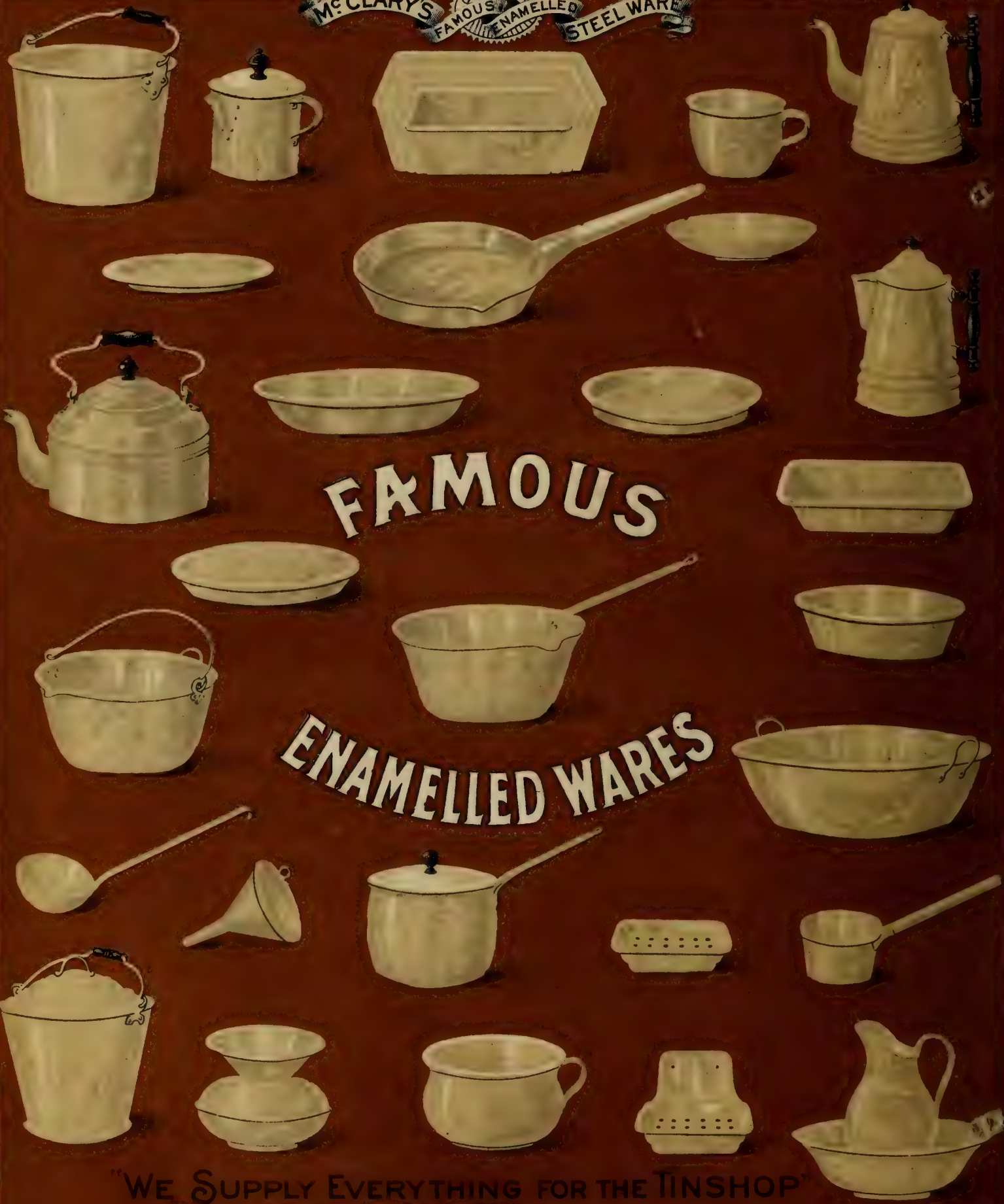
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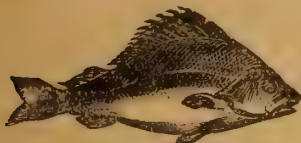
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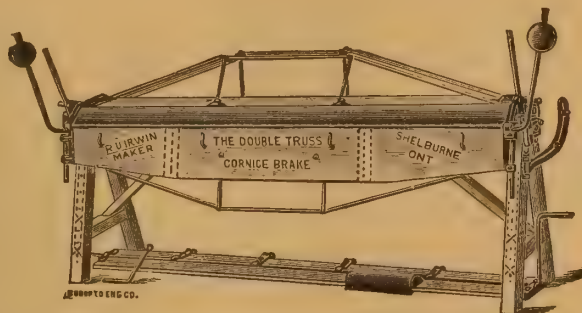
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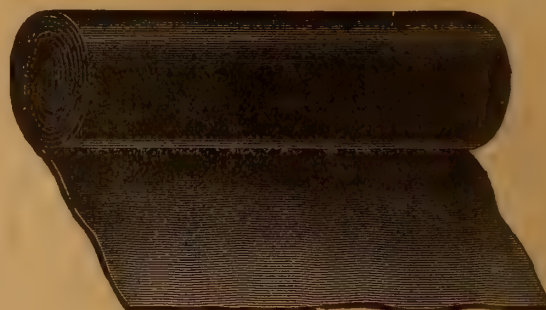
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VOL. XI.

MONTREAL AND TORONTO, JUNE 3, 1899.

NO. 22



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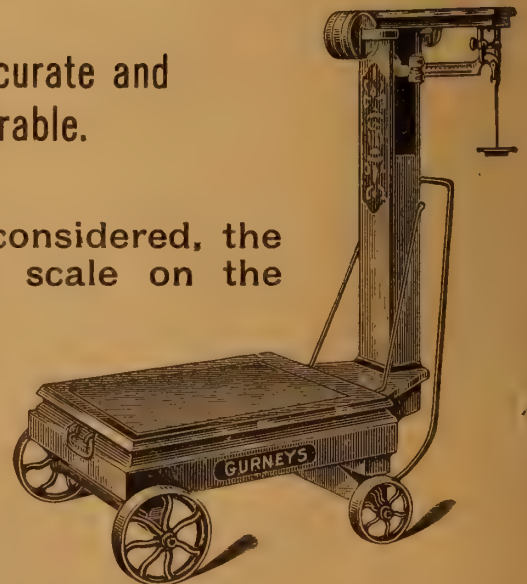
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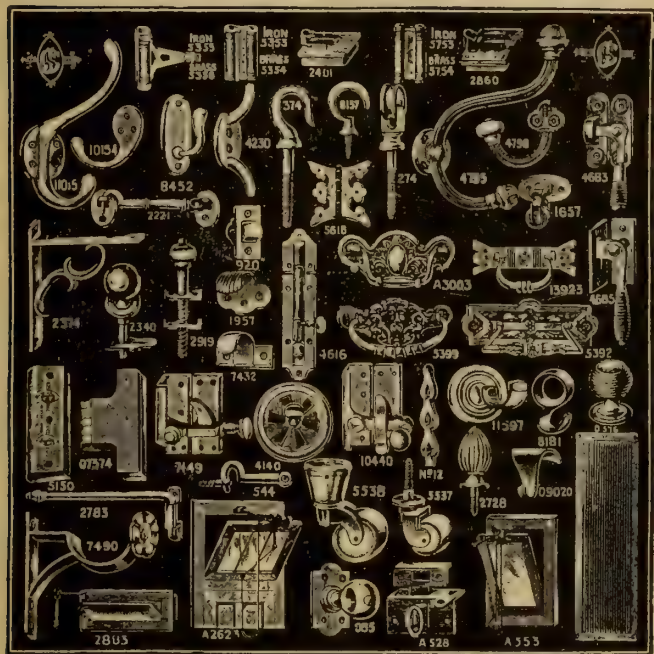
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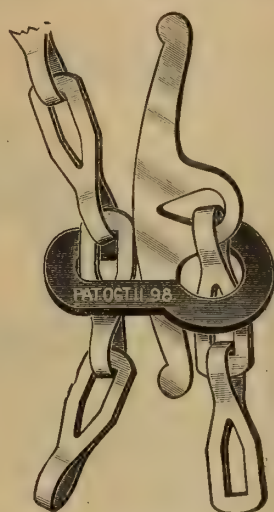
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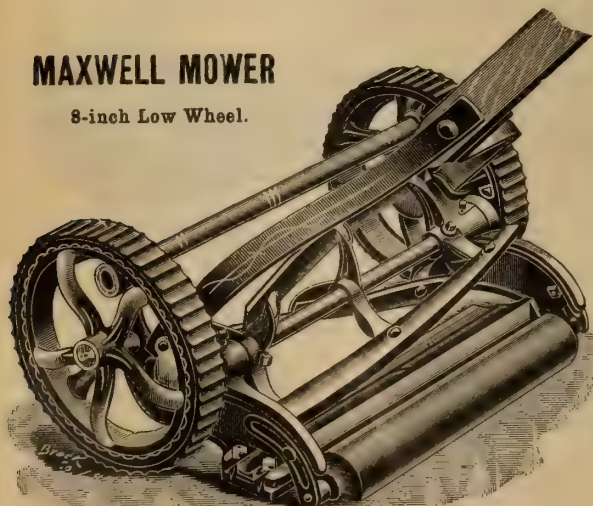
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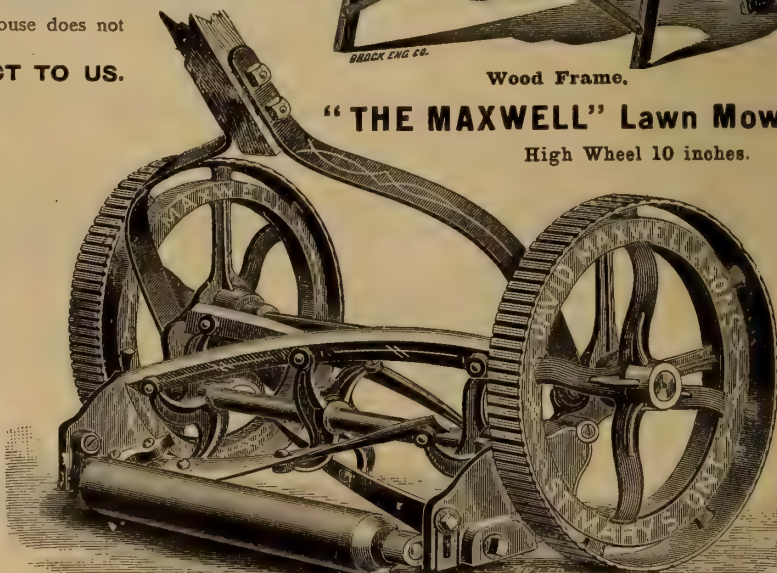
Wood Frame.

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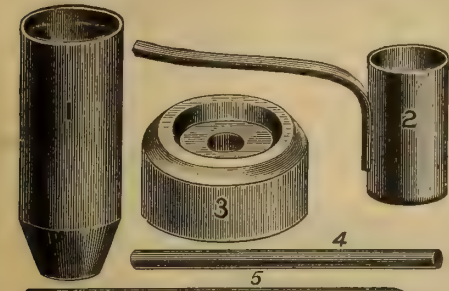
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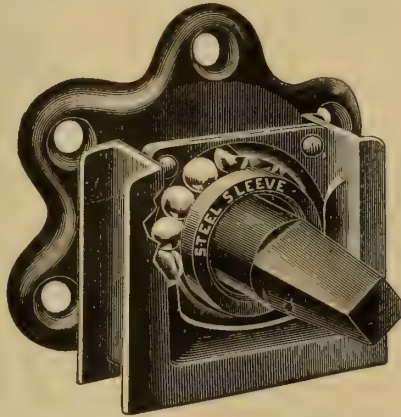
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their agricultural implements at this season of the year.
Be sure you have a good stock of



ISLAND CITY PAINTS

OUR PURE VERMILION
CHROME GREEN
CHROME YELLOW

is the strongest and best. Made specially for this purpose.

P. D. DODS & CO.

100 Bay Street,
TORONTO.

188 and 190 McGill Street,
MONTREAL.

Put Luxfer Prisms in thy
Windows.

Put Money in thy Purse.

"They echo the outside brightness
to the very rear of your warehouse
or basement."



EATON'S--WITH LUXFER PRISMS.



EATON'S--WITH PLATE GLASS.

CONVINCING.

Get estimates on the cost of the improvement.
Then compare your light bills.

Luxfer Prism Co., Limited.

58 Yonge St., Toronto.

IT PAYS TO BUY
THE BEST.



This Trade Mark is
on every Tag.

Plymouth Twine

assures the dealer against trouble, gives the farmer the greatest value for its cost, and there is no other Binder Twine made that will give such satisfaction, or which in practical use will be found so economical.

DISTRIBUTERS, PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.

JELLSTONE.

We will have this in stock in the course of a few days, put up in 5-lb. packages (white and eight tints) at the same price as barrels.

Don't load up with inferior Wall Coatings at higher prices.

SANDERSON PEARCY & CO.

--- TORONTO ---

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There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

Enameline

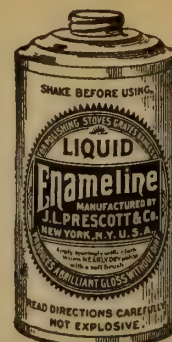
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PASTE.



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We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

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Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d, 6d, and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality for general and special purposes.

EMERY GRINDING MACHINERY

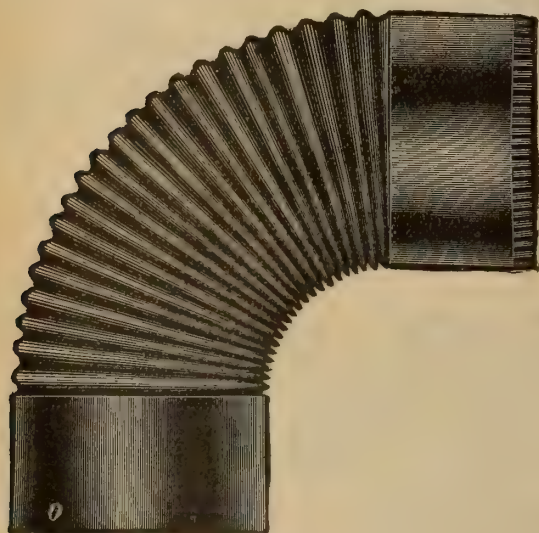


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One-Piece Elbows.

Made of Extra Heavy Smooth Steel ; in Two Qualities.

THIS ELBOW IS POPULAR, BECAUSE

It is the Strongest Elbow Made.
It is attractive in Appearance.
It will not get damaged in Shipping,
It has a Coating which prevents Rust.
It is riveted ready for use.
It is as Cheap as the Ordinary Pieced Elbow,

The improved process of manufacture produces a short turn, therefore, less material is used, and consequently less weight per dozen, which results in a great reduction in freight, and a reduced cost to the buyer.

MADE IN STEEL, IN 5, 6, 7 AND 8-INCH.
MADE IN GALVANIZED IRON, IN 7 AND 8-INCH.
MADE IN TIN, IN 7 AND 8-INCH.

Kemp Manufacturing Co., ...TORONTO,
CANADA.



Vol. XI.

MONTREAL AND TORONTO, JUNE 3, 1899.

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JOHN BAYNE MacLEAN, Montreal.
Treasurer,
HUGH C. MacLEAN, Toronto.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

CHANGES ON STAPLES AND TACKS

AS A RESULT of the continued advance in raw material, makers notified the trade, on Monday of this week, of a material advance in values, both on fine staples and double-pointed tacks.

An entirely new list on both lines has been issued, and the scale of discounts completely revised. The new list on fine staples, which cancels all previous lists, is as follows:

Bright or Coppered.	Inches.	Gauge.	Per 100 lb.
Cooper (or hoops)	3½-8	17	\$20 00
round or flat wire	4-8	16	18 50
	4½-8	16	18 00
Electrician flat wire	5-8	16	17 50
	5½-8	15	17 00
Broom flat wire	6-8	15	16 50
	7-8	14	16 00
Bed round wire	1 and larger		15 00

Poultry netting staples, 13 gauge: Gal-

vanized, ¾ in., \$13; ⅝ in., \$12.50; 1 in. and larger, \$12 per 100 lb. Bright or coppered: ¾ in., \$11.50; ⅝ in., \$11; 1 in. and larger, \$10.50 per 100 lb.

Extras net: 25-lb. boxes, ¼ c.; less than 25-lb. boxes (including 1-lb. papers), ½ c.; tinning, 3c. per lb.

In the scale of discounts, in addition to the revision on staples, coopers' nails have been advanced very materially, for, instead of a discount of 40 and 5 per cent. being allowed, only 40 per cent. is now given off the list. The new scale of discounts on fine staples of the new list above is as follows:

	Per cent.
Cooper staples	55
Poultry netting staples	45
Electrician staples	40
Broom staples	40
Bed staples	40

The new list on double pointed tacks in dozens is as follows:

Packed, 12 papers in a package, 12 packages in a case, 100 count:

Blued or coppered.	Blued or coppered.
No. 3..... \$1 20	No. 11..... \$1 40
No. 9..... 1 20	No. 12..... 1 60
No. 10..... 1 30	No. 14..... 1 85
No. 1 tinned 50 per cent. advance on list.	

Double pointed carpet tacks in bulk, 50 and 100-lb. packages: Nos. 9, \$20; 10, \$18.50; 11, \$18; 12, \$17.50; 14, \$17 per 100 lb.

Extras net: 25-lb. boxes, ¼ c. per lb.; less than 25-lb. boxes, ½ c. per lb. (including 1-lb. papers).

Tinning, 3c. per lb.

The discounts on the list are as follows: In dozens, 100 count, 85 and 10 per cent.; in bulk, 40 per cent.

The usual terms of four months approved credit, or 3 per cent. discount for cash in 30 days from date of shipment, govern the sale of all the above material. Prices are subject to change without notice.

ALUMINUM IN PLACE OF COPPER WIRE.

A new use is being found for aluminum, namely, that of feed wires for a Chicago elevated railroad company.

Three sizes of aluminum cable will be employed, the largest running up to 1½ inches in diameter, and The Pittsburg Reduction Works have received an order for 150,000 lb.

The immediate cause of the employment of aluminum cables in this particular instance is the high price of copper.

Forty-seven pounds of aluminum wire will, it is said, answer the same purpose as 100 lb. of copper wire.

Taking copper at 20c. per lb. and aluminum at 36c., it follows that the 100 lb. of the latter costs \$1,693, against \$2,000 for former, or about 15 per cent. less.

He who in business takes thought for the morrow does not need, as a rule, to be much concerned about the morrow.

U.S. EXPORTS OF STOVES.

At the recent meeting of the National Association of Stove Manufacturers of the United States, attention was drawn to the insignificant part the stove takes in the export trade of the United States. It was stated that but 37-1,000 of 1 per cent. of the total export was stoves, of which \$383,000 were sent out last year. This is just \$1,000 more than the exports of stove blacking.

The Dominion trade returns show that this country imported last year from the United States \$88,034 of stoves. Canada's exports of stoves to the United States, on the other hand, were only \$367.

PHASES OF THE IRON SITUATION.

EXCITEMENT in the iron market is not by any means confined to this continent, as the recent advances at Glasgow testify. There, the Scotch makers, actuated by a fear that high prices would check the demand, tried to keep pig iron prices down and have failed.

A feature of the demand for iron in this Scotch market lately has been active purchasing by United States firms. The latter were doing so not with the idea of bringing the iron across the Atlantic, but to substitute it for American pig in deliveries which they themselves had contracted ahead for American pig with British consumers.

Advices from Pittsburg recently are of further advances, bringing the price at Pittsburg up to \$17.65 per ton, and \$20 is confidently predicted.

Touching the large reserve force of idle furnaces alleged to be ready to go into blast, authorities assert that the effect, as yet, has been rather trifling, and that buying, or offers to buy, for the balance of the year, and as far ahead as the first quarter of 1900, are reported very brisk.

So far, according to the same authorities, necessary shut-downs for repairs have offset much of the new or old furnace capacity called into service. In fact, all indications go to show that every nerve is being strained to keep up with consumptive demand, and if, as has been claimed by some, the present advance in iron values has been worked up by the new combinations, the necessary fine work to bring this about has been cleverly concealed.

Birmingham, England, advices say that in that country the development of industrial activity during the past eight or ten months has told at last even upon the large available supplies of iron.

Press reports assert that powerful speculators are endeavoring to exploit the position for their own benefit, thereby dislocating trade and industry and injuring the consumer. A Glasgow correspondent points out that the recent advance has been caused by the continued purchases of iron in London, the result being that about two-thirds of the existing stocks of 300,000 tons have passed into the hands of metropolitan operators, who now practically control the

position. The dealers in the great Scotch centre, who have been striving to keep down prices, have been caught short, and quotations have been lifted to the highest point known for eight years. The excitement has now spread from Glasgow to the south, and the midland iron markets have now responded to the lead set by the northern centre. Many consumers have been choked off the market by the prices ruling, but others, who were forced by their commitments to buy, have actually been offering half a crown per ton above the current rates for prompt delivery. Something, indeed, very like a famine has begun in the iron market in Britain.

The Iron Age, reviewing the market in the United States, says: "The market is getting into a more excited condition, and the scarcity of material is even more pronounced than it has been. Prices are irregular in this respect, that they vary within considerable limits, early deliveries commanding a considerable premium, whose magnitude depends upon the circumstances governing each individual case. The preparations to blow in furnaces continue, but are much hampered by difficulties in securing supplies of ore and coke, and by delays in delivering equipment needed and material for repairs. Many of them are even now sold for months following the time set for the beginning of operations. Still the increase must tell, unless consumption keeps up at the present rate. The really serious question is to what extent and to what prices buyers who are now working up cheap material will come into the market. The rapid rise is naturally causing uneasiness, since a sharp reaction might lead to cancellations, and to withholding of specifications by those who, being belated, purchased largely at prices recently prevailing. And yet, of course, there is not the slightest indication of that."

The activity is reflected quite sharply and naturally in the Southern iron field where so much of the raw material has yet to be developed. At Birmingham, Ala., the market lately has strengthened to a material degree, the demand being general, and all that the markets cared to take has been booked at advanced prices. The character

of the demand was such as to confirm the report of a scarcity of certain grades in the Central Western States.

The Birmingham correspondent of the Manufacturers' Record writes that, "it must be remembered that what we call now a good demand is relative. What under ordinary circumstances when furnace yards carry good stocks was called but an ordinary demand, counts now as a good demand when furnace yards are bared. There is still no accumulation in furnace yards and none in warrant yards. In the latter shipments continue as fast as the cars are supplied for loading. It is a slow process, but a continuous one, and is constantly depleting the yards. It is hard to forecast because the furnaces are now pretty well sold up for 1899. As yet there are no sales for 1900 reported. Three furnace interests are more or less in the position of having sold their anticipated output for 1899 as close up as sound business prudence commands. The Pioneer Company, now under control of The Republic Iron and Steel Company, will, of course, direct their attention to supplying the wants first of their own properties before going on the general market. The furnace capacity of this company will be added to, either by the erection of two new furnaces of the capacity that experience here approves, or of one single furnace of the capacity of the two."

GREAT BRITAIN'S IRON TRADE WITH THE UNITED STATES.

WHILE the price of iron and manufactures of iron is appreciating the world over, it is more marked in the United States than elsewhere.

As a result of this, Great Britain has lately been getting back some of her trade in the United States in certain lines.

Exports of tinplates, for instance, to the United States increased about 900 tons during April, compared with the previous month. At the same time, however, the exports to that country for the first four months of the year were only 15,717 tons, against 30,261 the same period in 1898.

Unenumerated hardware increased by £2,555, compared with the same four months last year. Cutlery increased slightly, being £23,255, against £23,096. Agricultural engines to the value of £4,840 were exported during the four months, while for that period last year the figures were nil.

WIRE AND WIRE NAILS \$5 HIGHER IN THE U. S.

WIRE, wire nails, and, in fact, all steel wire and its products have this week been advanced \$5 per ton by The American Steel and Wire Co.

This is by far the most important feature in the hardware trade. The change went into effect on the 1st inst.

Although the iron market has been gathering strength during the past week or two, the advance which is announced by The American Steel and Wire Co. is a surprise to a good many, and the market is somewhat excited as a consequence.

In Canada, there is naturally a much stronger feeling in regard to wire and wire products, but it has not, up to the time of writing, resulted in any changes in prices except in barbed wire and staples, which are quoted 25c. per 100 lb. higher.

Quotations are now \$3.25 to \$3.30 per 100 lb. f.o.b. Toronto for barbed wire and plain twist. Staples are quoted at \$3.25 for galvanized and \$3 for bright. The advances were announced too late to allow corrections to be made in our prices current.

In what other lines changes may be made by manufacturers and jobbers in Canada cannot, at the moment, be stated, but an effort will certainly be made to mark figures up in certain lines, notably wire and wire nails.

Wire nails are now quoted in carload lots to retailers at \$2.45 f.o.b. Pittsburg, which, with duty added, would mean \$3.05 per keg without taking freight into consideration. There is evident room, therefore, for an advance in the price of wire nails in Canada. Barbed wire is quoted at \$3.05 f.o.b. Pittsburg to retailers in carload lots.

IRON BOUNTIES TO BE ABOLISHED

An important announcement was made in the House of Commons, on Wednesday, by Hon. Mr. Fielding, Minister of Finance.

It was to the effect that he intended introducing a resolution providing for the gradual reduction of the bounties on steel ingots, puddled iron bars and pig iron manufactured in the Dominion.

The reduction is not to begin until April 23, 1902. From that date until June 30, 1903, the bounty will be only 90 per cent. of what it is at present. From July 1, 1903,

to June 30, 1904, the bounty will be 75 per cent. of the present figures. From July 1, 1904, until June 30, 1905, the bounty will be 55 per cent. For the following year the bounty will be 35 per cent., and for the final year the bounty will be 20 per cent. The bounties will cease completely in July, 1907. It is provided that no bounty will be paid on steel ingots manufactured from puddled iron produced in Canada. By the Act of 1897 the bonus on steel ingots is fixed at \$3 and on pig iron at \$3 and \$2 per ton for the product of Canadian and foreign ore respectively.

PICKS, MATTOCKS, ETC., ADVANCE.

Manufacturers in the United States have again advanced prices on picks, mattocks, sledge hammers and stone hammers.

The advance is 10 per cent. all round.

This is the fourth advance since the beginning of the year. The last change was made in April.

It is thought that present figures will preclude the importation of the goods named into Canada.

A NEW FILE LIST.

File manufacturers in the United States have issued a new list. It went into effect on June 1.

The trade in Canada, as well as in the United States, will, as far as can be learned, adopt the new list at once.

The discounts are unchanged, the change being confined to the list proper.

EARTHENWARE PRICES WITHDRAWN.

Jobbers in Canada have been notified by the manufacturers in the United States of the withdrawal of prices on both earthenware and enameled ware.

CHANGE IN ESCUTCHEON PINS.

A change in the price of escutcheon pins is announced by the Canadian manufacturers.

The discount on brass is now 55 instead of 60 per cent., and on steel 45 instead of 50 per cent.

HARDWARE STILL ADVANCING.

Prices continue to advance in the United States in shelf hardware. Within the last few days T and strap hinges have advanced 10 to 15 per cent., Mrs. Potts sad irons 10 per cent., while washers and agricultural wrenches are both dearer.

NO NEED OF AN INSOLVENCY COMMISSION.

AT a meeting of the executive committee of the Canadian Manufacturers' Association, held in Toronto a few days ago, a resolution was adopted favoring a national insolvency law, and suggesting that the Government appoint a commission to confer with the representatives of the different manufacturing, commercial, banking, and transportation organizations with a view to drafting an insolvency bill that would be satisfactory to those interests.

The motive of the executive in asking for a commission is, doubtless, commendable, but the same cannot be said of the means it is proposed to employ to secure the desired end.

The discussions and the conferences that have taken place during the last few years, when insolvency bills have been before Parliamentary committees for analysis, have established the views of the financial and commercial interests in regard to this question. And what is known is known. Voyages of discovery are only made to discover something or some place that is not known.

To depute a commission to discover what the idea of the different interests concerned were, would be deputing it to discover what is already known.

What is wanted, in order that a national insolvency law may be obtained, is not a commission, but a sufficient number of men whose first concern is the commercial interests of the country, and whose concern for party is at least no better than second.

Whatever the business men of the country need, whether the Government be Conservative or Reform in its complexion, can only be obtained, as a rule, by the presentation of a strong front by those interested.

For some reason or other a national insolvency law is something of which both the present Government and its predecessor appears to be afraid. Both have acknowledged that there was need of it, but neither have had the courage to create it.

They have had the courage to run the risk of displeasing the business men of the country. But that is not surprising.

During the last administration it was known as a rule that the business man who was a Conservative would be a Conservative even when his demands were not complied with, and that he who was a Liberal would be a Liberal still. The present administration knows the same thing, hence, whatever it may do in other respects, it does not depart from the policy of its predecessors in its tardiness in dealing with questions which the business men from time to time submit to it for consideration.

MORALITY AND CREDIT.

By W. A. JOYCE.*

THE subject assigned to me must necessarily be considered as both broad and narrow. From the broad view we are obliged to consider all the surroundings and conditions of the case before us, and, in considering the subject generally, it depends solely upon our ideas of morality. For, if we judge from our own standard, we now and then need some

CAREFUL SELF-CULTIVATION,

for many of us are very lax in our idea of morality, and what is considered immoral by many men, is not by others thought of for a moment. We are, therefore, obliged to consider every element surrounding the case in question, and carefully draw our own conclusions. The short definition of the word "moral" is given "as manner of living as regards right and wrong." There are many different degrees of living, and it depends wholly on our own education and training as to what we consider thoroughly good or grading down to thoroughly bad. Marcus Aurelius says: "He who does wrong does wrong against himself; he who acts unjustly acts unjustly to himself, because he makes himself bad."

The credit man must learn to, and try to be, right himself. Then he can be better to judge others, and in judging others be careful.

BE NOT BIASED

or prejudiced, nor consider for a moment the nationality or religious views of the subject seeking credit, for often in those cases you are easily misled; often from appearances one cannot tell the underlying character and ability of the person under consideration. It has often been said "that it is very hard to tell just how a singed cat will appear." We must learn to use reason, be tranquil, and still be active. Appearances are disappointing.

In speaking of the nationalities, the Jew is often unjustly censured. It is true, we find many of them who, in their anxiety to become rich and successful, resort to many plans which, perhaps, other nationalities do not, as a rule, resort to. At the same time we must acknowledge that some of our leading tradesmen are Jews, and, as a rule, they are shrewd and self-protective. We seldom find them, in fact rarely, a subject of charity, and where they become on a fair footing or standing, they are very often the

SAFEST AND BEST MEN

with which to trade.

The credit man must necessarily meet all kinds of people. The busybody, the ungrateful, the arrogant, the selfish, the deceit-

ful, the envious and the dishonest. With all of these he has to use his very best judgment, and learn to study their several and separate characteristics. Of the grosser immoralities which need watching, in my judgment, is first and greatest of all—extravagance. Codben says the world is composed of two classes, "those who have saved, and those who have spent."

EXTRAVAGANCE LEADS TO HIGH LIVING,

and continually grows upon a man until unable, practically, to retract. It leads to intemperance and dissipation, and in many cases to licentiousness, and finally and almost surely in every case, to dishonesty. We find, in looking over the usual grades of the ordinary tradesman, that he commences life in a modest manner, proceeds along his daily life in a modest manner, proceeds along his daily life, gradually improving his condition, but in the meantime his expenses are more than keeping abreast of themselves. His family's social affairs demanding more of his attention, and often it leads until the expense account far exceeds the profit account as shown. It is too late to retrench, and finally, by the aid of some unscrupulous attorney, or the advice of some friend who has had the same experience, the tradesman, for the first time, demonstrates a trait of dishonesty. Then comes

THE STRUGGLE TO SAVE

something for the future which must necessarily be saved in a dishonest manner, a settlement is effected and the tradesman and his family reappear upon the scene and still living among their friends and neighbors in the same extravagant manner.

In looking over this subject, one cannot help but think that, from childhood to old age, the sin of dishonesty is constantly before us. The little child in its daily studies is soon taught to dishonestly obtain help in its lessons from its companions, and many a mother unconsciously teaches a child to become dishonest by carefully training them to continue at an unusually youthful age until the railway employees will stand it no longer.

There is another subject on the question of morals which I cannot help but touch upon. We often find men applying for credit who appear extremely religious; that is to say,

THEY PARADE THEIR RELIGION

by continually talking about the same, and contrasting themselves with others who are not among the elect. Those men, beware of; not always, but very often, their religion is a mere cloak, and experience will surely teach you that the religion for business men to follow is their everyday action to their neighbor.

PROLIFIC INVENTORS.

It will undoubtedly surprise many people who are inclined to underrate the importance of patents to learn of the great number of patents taken out by some of the brainiest and richest men of the world.

During the past 25 years, the United States Government has granted 25 inventors more than 100 patents each, the whole number being 4,894, and the average 195. Thos. A. Edison heads the list with 711. Next in order, Elihu Thompson, with 394; Francis H. Richards, 345; Edward Weston, 274; Charles H. Scrivener, 248; Charles J. Vanderpoole, 217, and George Westinghouse, 204.

The inventors of Canada are beginning to realize that the United States offers a vast field for the development of moneymaking inventions. The following Canadians who have recently been granted United States patents are kindly reported by Marion & Marion, patent solicitors, New York Life Building, Montreal:

617717, Geo. R. Chicholm, Sault Ste. Marie, Mich., children's carriage; 618121, Thos. J. McBride, Brimley, Mich., car couplings; 619541, Samuel W. Butterfield, Three Rivers, P.Q., wood-sawing machine; 620582, Richard C. Goff, Charlottetown, P.E.I., ice creepers; 620,738, William V. Chisholm, Ashdale, N.S., wrenches; 620750, Joseph A. Dion, Montreal, P.Q., cooking utensils; 621835, Wm. McDonald, Halifax, N.S., duplicate design displays; 621830, J. R. Lavigueur, Montreal, P.Q., door stop and catch combined; 622812, Adelard Lapierre, Montreal, P.Q., sleeping bags; 623580, Paul H. Trathewey, Muskoka Falls, Ont., guards for freight cars; 623684, Aurele Noel, Father Point, P.Q., car lock; 623956, Treffe Guilbault, Montreal, P.Q., bedstead; 623978, Abram Broodsky, Montreal, P.Q., process of treating plaster paris moulds; 624944, L. C. Henson, Eagle Bend, Minn., door checks; 625647, Alexander Marengo, Montreal, P.Q., cigar-making machine; 625330, Onesime Galarneau, P.Q., ice creepers.

WIRE NAILS TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO
Limited
HAMILTON, ONT.

*Address before the Credit Men's Association, Buffalo.

FRENCH FILES IN ENGLAND.

SOME of the leading engineering houses of England have been victimized by travelers of French file makers.

The methods of the travelers in soliciting business were to confine their samples to very small proportions, some samples of large files being small enough to be contained in a small packet to be carried in the pocket. They boasted of the high-class steel out of which the goods are made, and allowed buyers to freely test the samples of the tool steel and finished goods brought round with hammer and set—experiments evoked expressions of ungrudging admiration. Now that the files are on actual trial they are pronounced in no case to be superior to native products.


The travelers, who professed to be imperfectly acquainted with English, took some orders viva voce; in other cases in very imperfectly written forms. When these orders were filled, the English buyers found that instead of getting sample lots, as expected, they were supplied in a very large way. One Birmingham firm, which expected £25 worth, got no less than £80. In many cases, too, where a common or cheap grade was asked for, the dearest was supplied, and charged for.

How the English buyers were so taken in by the French salesmen is all the more surprising when a comparison of French with British prices shows that the French article in all cases has proved to be the dearer of the two. The French 14-inch "hand" rough and bastard files come out at 30s. 8d. per dozen, after allowing the full French discount, while the English price for the same article, hand-cut, in the Wolverhampton and Birmingham district is 18s. net, a difference of, in each set, 12s. 8d. per dozen!

The Hardwareman, in speaking of the matter, says: "The only excuse that can be suggested is, that instead of treating the continental travelers, as experience would have dictated, as 'sharks' pure and simple, firms in the engineering trades generally accepted their bona fides with an innocence born of the honorable character of dealing which exists between buyer and seller in this country. After this expose probably greater discretion will be exercised in the future."

MR. GARLAND IN EUROPE.

The London, England, representative of Hardware and Metal writes: "I ran up against young Mr. Garland, of the Dunlop Tire Company, of Toronto, in the city a few days ago. He is taking a trip around the world for his health, and expects to be back home again in October."



IF THESE COULD SPEAK

If the painter's worn out brushes could tell how much cheap paint was responsible for their premature end, there wouldn't be so much cheap paint used, and there *would* be a greater appreciation of **The Sherwin-Williams Paint.** The cheap materials of cheap paint won't mix well. The brush often has to do service for the mixing stick to bring inferior oil and inferior pigments together. And it doesn't spread well. It takes three times more energy and wear to spread a cheap paint than it does.

THE SHERWIN-WILLIAMS PAINTS

—the finest paints that expert skill and scientific appliances can produce. Every drop sold is guaranteed for quality, covering capacity and durability. Made in many styles for many purposes from house painting to buggy painting. It looks best, wears longest and is most economical. "Paint Points," our book on painting, tells why. Write for it. Yours for the asking.

THE SHERWIN-WILLIAMS CO., Paint and Color Makers,

21 St. Antoine St., Montreal; also Toronto, Cleveland, Chicago, New York.

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

DUNCAN McPHERSON, general merchant, West Lorne, Ont., has assigned to C. B. Armstrong, London.

John Loughrin, hardware dealer, Mattawa, Ont., has assigned to D. Dunlop.

J. O. A. Deguire, general merchant, Glen Robertson, Ont., has assigned to J. N. Rattey.

Christie, Bailey & Co., general merchants, Millwood, Man., have been granted an extension.

J. C. Robinson, general merchant, Wawanesa, Man., has compromised at 70c. on the dollar.

PARTNERSHIPS FORMED AND DISSOLVED.

Hutchinson & Campbell, machinists, Toronto, have dissolved.

D. Shelley & Co. have registered partnership as contractors in St. Martin, Que.

John Lewis & Co., hardware dealers, Belleville, and Vancouver, B.C., have dissolved.

Loth & Gunther, general merchants, Milverton, Ont., have dissolved, Wm. K. Loth continuing.

SALES MADE AND PENDING.

The stock of Louis Fontaine, general merchant, Ange Gardien, Que., has been sold at 70c. on the dollar,

CHANGES.

J. Samuels, tinsmith, Ottawa, has retired from business.

The Luxfer Prism Co., Limited, Toronto, have been incorporated.

Joseph Redmond, bicycle dealer, Picton, Ont., is giving up business.

Pierre Martel, general merchant, St. Prime, Que., has removed to Roberval.

A. DesBrisay, general merchant, Wolseley, Man., has sold out to Manson Bros.

C. F. Gidney, general merchant, Burford, Ont., has been succeeded by George Scott.

Louis Lavigne, hardware dealer, etc., Lawrenceville Que., has sold out to G. Lavigne.

R. C. Robertson, blacksmith, Pilot Mound, Man., has sold out to Alex. Ross, of Clearwater, Man.

Henrietta Cardinal has registered as proprietress of Prosper Boulanger & Co., contractors, Quebec.

Rider & Kitchener, manufacturers of veneer and excelsior, Brampton, Ont., have removed to Lindsay.

Mrs. Paul Bertrand, general merchant, Masham Mills, Que., has been succeeded by Napoleon Bertrand.

Manuel & Ruttan, general merchants, Donald, B.C., have sold out to G. B. McDermott, who removes his stock to Golden, B.C.

FIRES.

Peter Milne, coal dealer, Belleville, Ont., has suffered loss by fire.

STORE CLERKS.

It has, no doubt, been observed by many people, says The New York Enquirer, that the difference in store clerks is as conspicuous as a walking sign could well be, and as varied as the goods which they sell and try to sell; and while there is room for a number of distinct qualifications of ability, there is sufficient subject matter derived for a brief discussion, in condensing the numerous characteristics of this craft, into three common classes, viz: The Ordinary, The Indifferent, and The Practical.

The ordinary clerk is one who generally reports for duty at the last minute, and regards his position in the light of an automatic machine, or an everyday routine, without the slightest consideration for his employer. He chats with his next counter neighbor upon social topics, and feels disgruntled when a customer calls for his services before he gets through with his conversation; his capacity is medium, and his ambition may well be compared to a small stationary engine which puffs in a perfunctory manner, but unable to get up sufficient steam for the execution of good work, and yet in his own lofty estimate of self-accomplishments, his mind becomes vague, obscure and puzzled, when he is overlooked in the line of promotion.

The indifferent clerk is as dry as a mummy, both in ideas and demonstrations, and often owes his place to mere chance; cheerfulness and courtesy is to him or her an unknown quantity; he executes his functions in the same manner as his looks and actions display, and gets rid of his customers as soon as possible. The goods done up by this clerk are generally crushed and crowded into a piece of wrapping-paper—which is often too small—in a haphazard way, and the twine often opens before the goods reach their destination. It was only the other day I saw a lady in a street car with a package of this description, and she made the remark to her companion that she would never go into ——— & Co.'s store again, because, after they sold you the goods, they did not seem to care how they wrapped them up, or how you got them home. This is the inevitable result of an indifferent clerk, whose carelessness often causes a depreciation of figures on the proper side of the ledger or balance sheet of his employer.

The practical clerk is wide awake; he takes a pride in his profession; he is ever courteous, affable, willing and obliging; he takes a keen interest in his counter, as well as his employer; he is a close student of human nature, and seeks to please his patrons; he studies the peculiar whims and fancies of his customers, and is a diplomat

in any emergency. If his patience is tried by a cranky customer, he avoids friction by hiding his chagrin behind his good nature, and wins the plaudits of all with whom he comes in contact. This same practical clerk is a success to himself, as well as to his employer. He can command a good salary when others often fail. Merit and

effort place his services at a premium. He often attains to a high position and responsibility, and frequently becomes member or head of a firm, and takes his place in the front rank as a successful business man.

Issac Plunkett, general merchant, Merivale, Ont., has sold out.

1899 MODELS**Iver Johnson Cycles****\$25 AND \$35****HONEST WHEELS
FULLY GUARANTEED**

We have added two new models to our line of "Honest Cycles," and now have bicycles listing at

\$25 \$35 \$40 \$50 \$60 \$75**DROP-FORGED CONNECTIONS THROUGHOUT.****Branches—**

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

Use Gilbertson's Tinplates

for the following reasons:

They are heavily coated with Tin.
They are of Soft Siemens quality.
They are noted for deep stamping qualities.
They are the best for canning purposes.
They cost NO more than inferior brands.

Gilbertsons' make the following brands and qualities:

"Gwyned," Coke Finish,
"Regina," Coke Finish,
"Comet," Charcoal Finish,
"Lincoln," Charcoal Finish,
"Crown," Charcoal Finish,
"Pontardawe," Best Charcoal Finish.

BE PARTICULAR to ask for these brands when ordering from your jobbing house. They can be supplied in all sizes and weights.

GILBERTSON'S TERNEPLATES**"Regina" brand**

This is a superior plate and heavily coated—a good roofing plate that will give satisfaction to your customers.

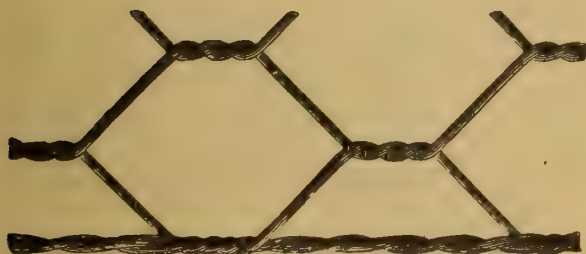
Wholesale only.**ALEXANDER GIBB****Agent for Canada.****22 St. John Street, MONTREAL.**

H. S. HOWLAND, SONS & CO.

Wholesale Only

37-39 Front Street West, TORONTO

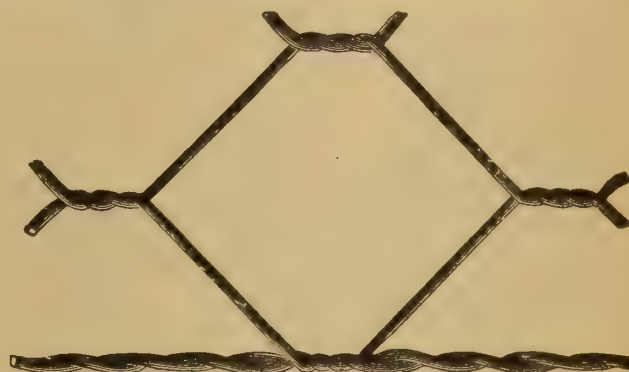
In Stock POULTRY NETTING In Stock



$\frac{1}{2}$ -in. Mesh, 19 Gauge, 30 in. wide.

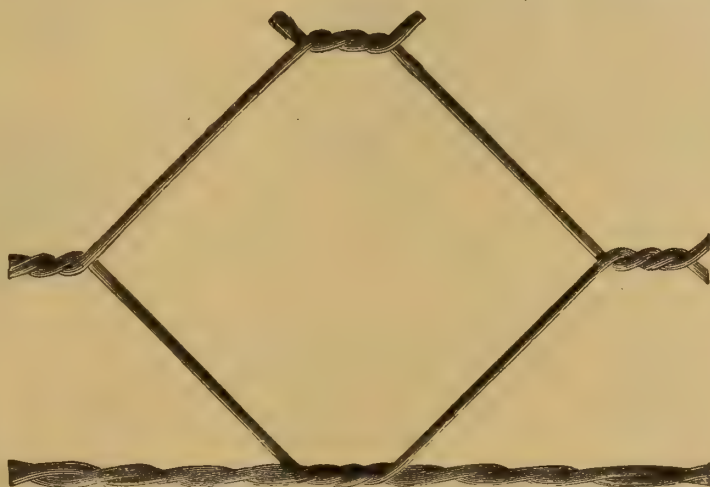
$\frac{3}{4}$ -in. Mesh, 20 Gauge, 24 in., 36 in. wide.

1-in. Mesh, 20 Gauge, 30 in., 36 in. wide.



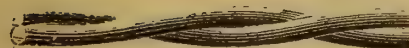
1 $\frac{1}{2}$ -in. Mesh, 19 Gauge, 24 in., 30 in. wide.

IN STOCK.
Orders filled at
market prices.



2-in. Mesh, 19 Gauge, 12, 18, 24, 30, 36, 42, 48, 60, 72, 84-in. wide.

IN STOCK.
Orders filled at
market prices.



BARB WIRE.



4-Barb, 4 in. between.

4-Barb, 6 in. between.

PLAIN WIRE.

Oiled and Annealed, 10, 11, 12. Annealed (Hay Balling) 14.
Plain Galvanized, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Tinnings' Wires, 7, 8, 9, 10, 11, 12.

WIRE STRETCHER.



$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$ -in.

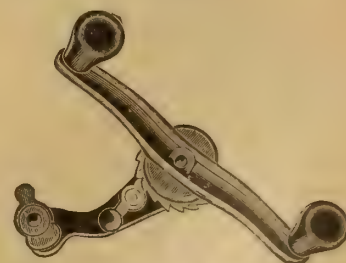


Hercules.



2-Barb, 3 in. between.

2-Barb, 5 in. between.



Samson.

H. S. HOWLAND, SONS & CO., TORONTO.

Graham Cut and Wire Nails are the Best.

MANITOBA MARKETS.

WINNIPEG, May 30, 1899.

BUSINESS is good and increases steadily. There have been a number of advances to record in the past week. Tinplates have advanced 50c. Ingot tin from 29 to 31c. Canada plates from \$3.10 to \$3.25. Galvanized iron has advanced 25c. Cable chain 50c. per 100 lb. and bar steel 25c.

The carpenters' strike which was reported three weeks ago has been left to arbitration and the men have returned to work. The masons, bricklayers and draymen struck in sympathy, and this brought matters to a head as the whole building trade was practically paralyzed. Building will now be shoved forward with increased vigor, as the season here is all too short for the work projected. The C.P.R. have announced their intention of building a large hotel, and though the site has not been indicated knowing ones say it is a property on Portage avenue which has 250 feet frontage and which recently changed hands. There were rumors to the effect that it had been purchased by Timothy Eaton, of Toronto, but there appeared to be no foundation for these stories, while there does seem ground for the belief that this will be the site of the C.P.R. hotel. Probably no better could be found in the whole city. Prices for the week are as below:

Barbed wire, 100 lb.	\$3 50
Plain twist	3 50
Staples	4 00
Oiled annealed wire	2 90
"	11 30
"	12 25
"	13 30
"	14 30
"	15 30
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horse nails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1.	4 40
No. 2 and larger	4 15
Snow shoes, No. 0 to No. 1.	4 70
No. 2 and larger	4 40
Steel, No. 0 to No. 1	4 70
No. 2 and larger	4 45
Extra light	5 65
Bar and band iron, \$2.30 basis.	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb.	8 75
Jessop	12 75
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 25
14 to 26 gauge.	3 50
28 gauge.	3 60
Galvanized American, 16 gauge.	4 25
18 to 22 gauge	4 50
24 gauge.	4 75
26 gauge.	5 00
28 gauge.	5 25
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb.	7 55
26 gauge	8 80
28 gauge	8 00

Tinplate, IC charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 50
Ingot tin.	31
Canada plate, 18 x 21 and 18 x 24.	3 25
Sheet zinc, cask lots, 100 lb.	8 50
Broken lots.	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black up to 2 inch.	60 p.c.
Over 2 inch.	60 and 10 p.c.
Rope, sisal, 7-16 and larger.	11 00
" 3/4	11 50
" 1/2 and 5-16	12 00
Manila, 7-16 and larger	12 00
" 3/4	12 50
" 1/2 and 5-16	13 00
Solder	19
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass	70 and 10 p.c.
Round "	65 p.c.
Bolts, carriage 5-16 and smaller.	52 1/2 p.c.
3/4 and larger.	47 1/2 p.c.
Machine	52 1/2 p.c.
Tire	60 and 10 p.c.
Sleigh shoe.	65 p.c.
Rivets, iron.	50 p.c.
Copper, No. 8, lb.	33 1/2 c.
Spades and shovels.	
Harvest tools.	60 to 60-
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1.	1 50
No. 2.	1 25
Octagon extra.	1 65
No. 1.	1 25
Linseed oil, raw, per gal.	57
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol.	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol.	5 p.c.
C.F. military.	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge.	15 00
chilled, 12 gauge	16 50
soft, 10 gauge.	20 00
chilled, 10 gauge.	21 00
American, M.	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled.	7 00
Powder, F.F., keg.	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed.	70 and 30 p.c.
Granite ware, according to quality.	70 and 10 p.c.
Turpentine, by barrel.	72c.
Less than barrel.	75c.

A HOG ALWAYS.

It happened on a crowded car. A seedy-looking man, very much the worse of liquor, rose to give his seat to a lady, when a robust man slipped into the vacant seat, leaving the lady still standing. "Sa-a-y, you—you fellow, you," said the boozy but chivalrous individual, as he swayed too and fro hanging to a strap. "I—I'm drunk, I know, but I—I'll get over it, I will; but you—you're a hog, and you'll never get over it—in this world—no, sir, never!" And the other passengers agreed with him—Our Dumb Animals.

THE NEWFOUNDLAND TAX.

Mr. A. H. Ellis, representative of Henderson & Potts, Halifax, was one of nine travelers who were ordered to stop doing business in Newfoundland a short time ago. The Newfoundland Government have passed a law charging commercial travelers \$100 for a license. Mr. Ellis and the eight other travelers returned from the Island, and the hotels, railroad, etc., lost considerably by the policy.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.

COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.

PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., U.S.A.

COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS.

Pullman Sash Balance Co.
Makers of the
"Pullman" Hardware Specialties
Main Office and Works,
Rochester, N.Y., U.S.A.

Cheapest IN THE WORLD.
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.

The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used.
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited

THE SELLING QUALITIES

OF OUR NEW

Imperial Oxford

make them the most desirable stock you can handle.

Their diffusive flue construction,
Front draw-out grate,
Oven Thermometer,
Draw-out oven rack,

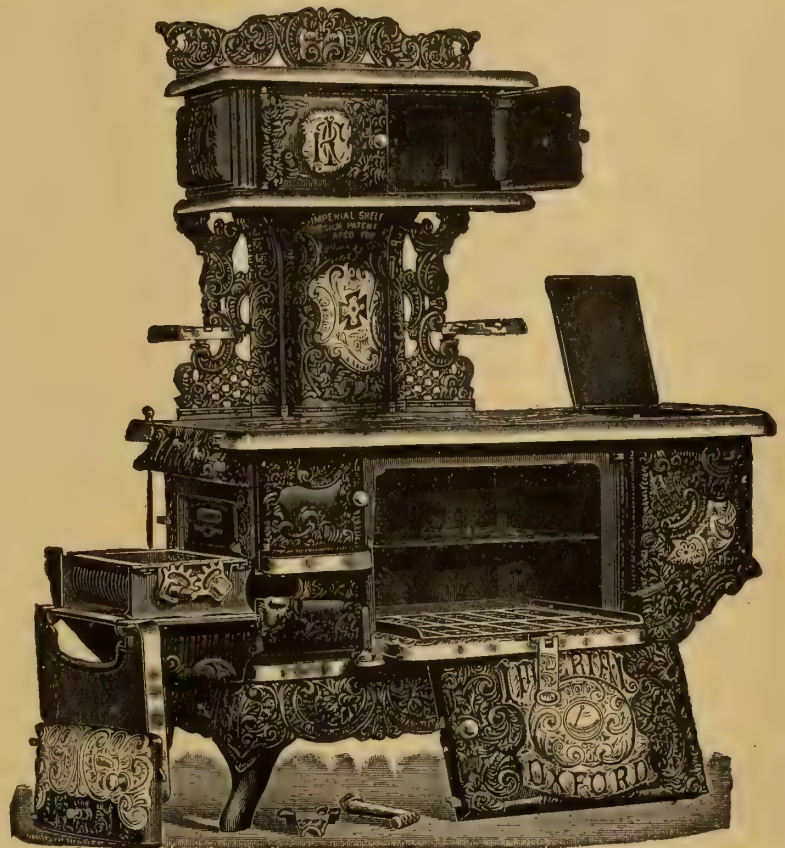
and other improved features give them a precedence over other ranges that is appreciated on sight. Your customers will realize this superiority as soon as they see the range—sales are easy.

Have you our catalogue and price list?

The Gurney Foundry Co., Limited, Toronto

THE GURNEY-MASSEY CO., Limited, Montreal.

BRANCH: 185-187 Lombard St., WINNIPEG.



D. F. Jones Manufacturing Co. Limited, of Gananoque, Ont.

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND



WIND GUARDS, CHIMNEY TOPS, FLUE LININGS, CULVERT PIPES, SEWER PIPES, INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

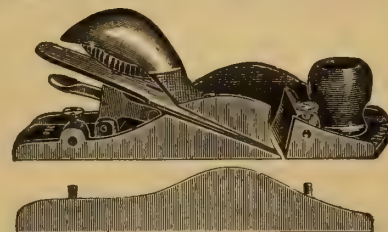
Limited

IMPROVED
Labor-Saving
**CARPENTERS'
TOOLS.**

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

STANLEY'S RABBIT AND BLOCK PLANE.



A detachable side will easily change this Tool from a Block Plane to a Rabbit Plane, or vice versa. The cutter is set on a skew.

No. 140. Rabbit and Block Plane, with detachable side,
7 inches in length, 1 3/4 inch cutter\$1 25

The

**CARPENTER
GRASS HOOK.**

Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.

For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



DRAW FILING.

THE term "draw filing" refers to that use of the file in which the direction of its motion over the surface of the work is at right angles to its length. In draw filing, the file is grasped by its ends with both hands, as shown in Fig. 21. The handle is usually removed, as the file cannot readily be controlled when one grasps the handle.

As the belly of the file can be brought to bear on the high spots more readily and

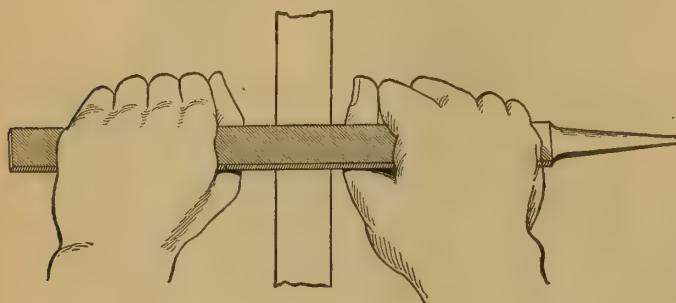


Fig. 21.

under better control than in cross filing, more accurate results can be obtained by draw filing, even by a less skillful mechanic. For a given pressure, the file in draw filing does not cut so deep or remove so much metal as in cross filing. It is not, therefore, well adapted to the quick removal of large amounts of metal, but, when an accurate surface or a finely-finished one is required, it can best be obtained by draw filing. The grain or lay of the finish produced by draw filing will be in the direction of the strokes, and much finer than can possibly be obtained with the same file in cross filing.

When a surface is to be reduced wholly by filing, a second cut or a smooth file should be used in cross filing to remove the deep file marks made by the rough or bastard file, which is used to remove the bulk of the metal, thus producing a smooth surface for the final drawing file operation. A file coarser than a second cut is not suitable for draw filing.

In modern practice, nearly all surfaces that are to be finished are machined smooth, true and practically to size, so that draw filing alone will remove all tool marks and prepare the surface for polishing or scraping, if it is to be an accurate bearing surface. In general, machined surfaces should be filed as little as possible in producing the required finish. If filed too much, the surface becomes untrue, and can be brought back only at the expense of much time and careful work. It is very important in machining surfaces that are to be accurately finished by filing to make the finishing cut a light one, with the cutting tool so adjusted

as to leave a smooth, true surface, and thus requiring the minimum amount of filing.

After draw filing, the surface is usually given a finish by rubbing it down with fine emery cloth and oil. For this operation the emery cloth is secured to a narrow block of wood or wrapped around the file. In either case it is given the same motion as for draw filing. When a very fine finish is desired, the surface is first draw filed in the direction of the lay of the final finish, with a smooth file. The direction of the strokes is now

changed to right angles, with the required finish, a dead smooth file being used. This latter cut seems to level off the tops of the small ridges left by the first filing being used. The final finish will be obtained by rubbing the fine emery over the surface in the direction of the first filing. A

piece of clean leather, charged with washed emery and oil, is excellent for this purpose.

When a concave surface is to be draw filed, the half round smooth or second cut file should be used, as shown in Fig. 22. The file should be rotated slightly in the hands, so as to bring different portions of its surface into action. It is best to give it a small amount of end motion, just enough to cause the file marks to cross each other.

In draw filing convex or cylindrical surfaces, a flat file or the flat side of a half-round file will usually be used. Such surfaces are generally so filed to produce finish only, and when cylindrical truth is required they must be very carefully done. As shown in Fig. 23, the file surface in contact with the work is very narrow, and consequently the pressure on the file must be very light. As shown by the dotted lines, the angle of the file with the horizontal should change slightly, yet a uniform amount, with each stroke.

In all draw-filing operations the work should be done on the forward stroke, the file being released of all pressure, but not raised from the surface of the work on the return stroke.

The above information is taken from a practical work on files issued for gratuitous distribution by The Arcade File Works, 97 Chambers street, New York City.

A LONDON HARDWARE FIRM.

London, Ont. has seen several changes in the stove and tinware retail business in the past few years. These changes have,

in most cases, shown a forward movement. Foremost among the firms in this line is that of Wm. Wyatt & Son, who for years conducted business on Richmond street, with a branch store on Talbot street, facing the market. In 1896, the firm decided to build on Talbot street, closing out their store on Richmond street. This proved a successful move, and to-day finds the first building

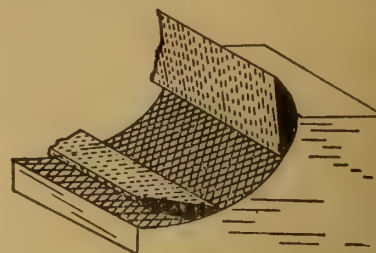


Fig. 22.

doubled in its capacity, and it will be none too big to accommodate the extensive business now being done.

The present premises are 40 ft. front and 55 ft. deep, four flats and cellar. The first and second flats are used as showrooms, the third as a workshop, and the fourth for reserve stock. The front of the addition, being of plate glass, is one continuous window, giving 20 feet of display space, and will be of inestimable value as an advertising attraction. The entrance is in the old building, with windows of smaller dimensions on either side. Besides the sales department, the firm does a large jobbing business in copper and sheet metal work, and the increased workshop space will make work a pleasure, as well as more expeditious and economical.

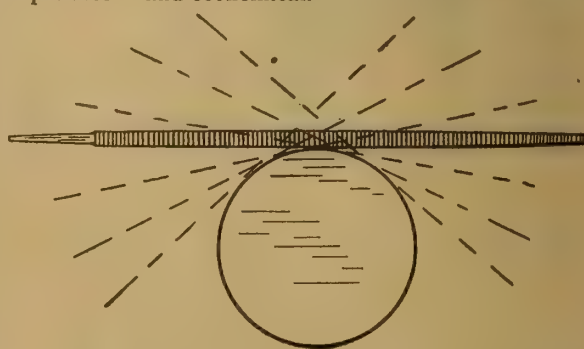


Fig. 23.

Mr. Wm. Wyatt, senior member of the firm, under whose supervision the improvements are being made, has watched the various changes that London has had for three score years, having lived all his life in London, and to-day ranks among the "Forest City's" most influential and enterprising citizens. In this, his latest venture, he is to be congratulated, and, doubtless, will fully appreciate the advantages these improvements will give.

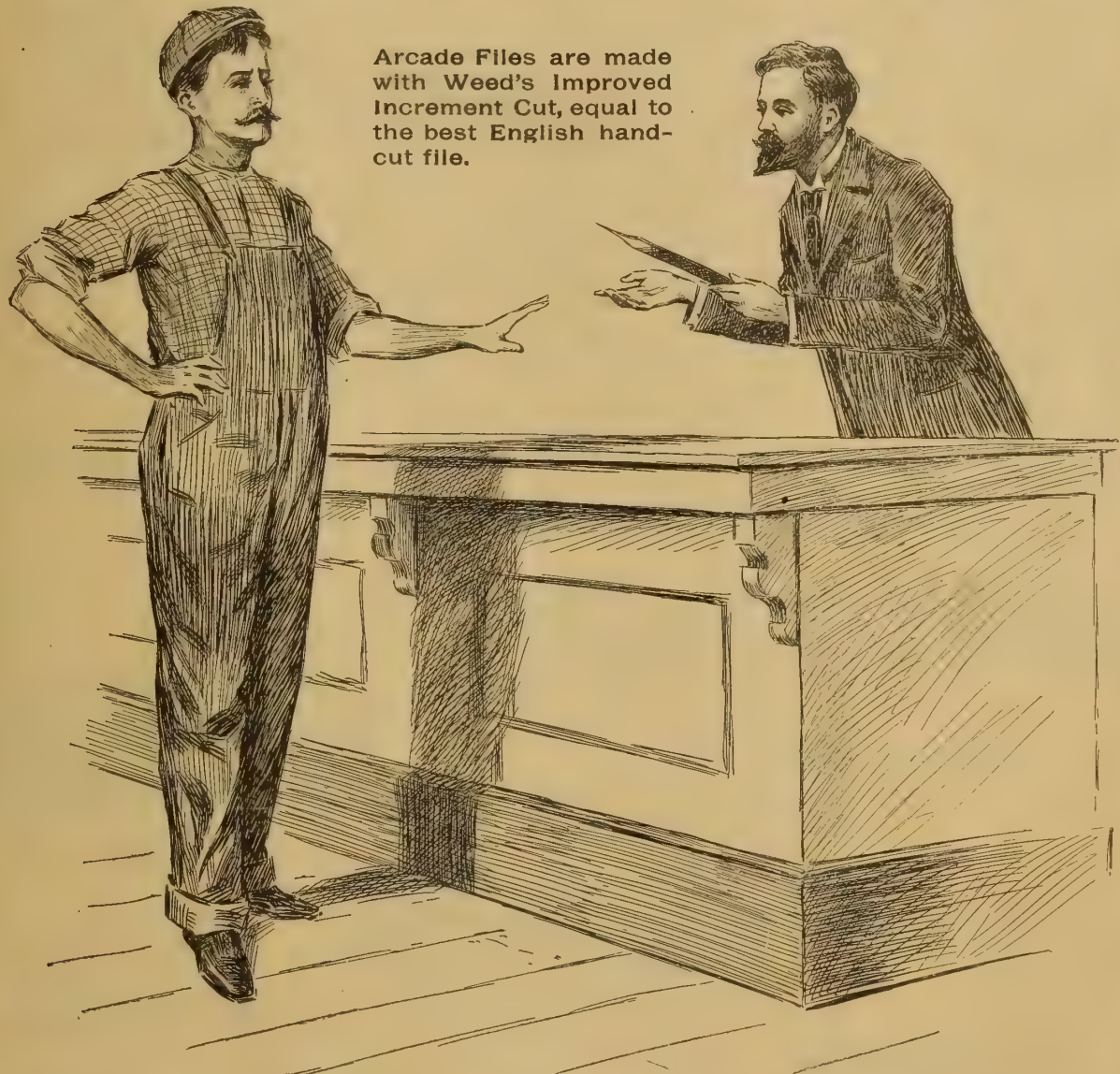
SCOTT MCKERROW.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

There is no other file "just as good."

THE ARCADE IS THE BEST



"I want an ARCADE file."

"We are all out of ARCADE files. Try this; It is just as good."

"No, Sir. I want the ARCADE. It cuts faster and wears longer than any other file made"

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL June 2, 1899.

HARDWARE.

THERE is a fair volume of business passing in general hardware, the general buoyancy of prices making buyers agreeable, and making for sustained activity. Further advances this week are noted in fine staples and double-pointed tacks, new price lists and a revised scale of discounts being issued Monday last on both lines. Wire is firm also, though quiet, while iron rivets and burrs have advanced 5 per cent. on last week. Wire nails and cut nails are steady, while screws and bolts continue to meet a fair inquiry. Horseshoes and horse nails are quiet, and there is nothing new to report in regard to rope or other lines of hardware material.

BARBED WIRE—There is a fair demand for barbed wire, but difficulty is still experienced in regard to deliveries. Prices are unchanged on the basis of \$3 f. o. b. Montreal.

SMOOTH STEEL WIRE—Quiet and unchanged at \$2.50 f. o. b. factory.

FINE STEEL WIRE—Discounts are unchanged at 25 per cent., with trade rather slack.

GALVANIZED WIRE—Prices are firmer for this line, and \$2.90 is now asked as the base price.

BRASS AND COPPER WIRE—Demand is light and discounts are unchanged.

FENCE STAPLES—Some movement is noted, while prices are unchanged, bright \$2.90 and galvanized \$3.50 per keg of 100 lbs.

OTHER STAPLES—There have been some radical changes in these both as regards price lists and discounts. Full particulars are given in editorial columns.

WIRE NAILS—Demand is moderate, but prices are firmly held at \$2.50, and small parcels call for an advance on this price.

CUT NAILS—Business is quiet and prices are unchanged at \$2.05 f. o. b., the usual delivery points.

HORSE NAILS—Quiet and unchanged; discounts 50 per cent. on standard and 50 and 20 on Acadia.

HORSESHOES—There is only a moder-

ate business in these. We quote as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f. o. b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f. o. b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

TACKS—There is no change in these. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—A new price list has been issued in these, and discounts have been radically revised. The facts are given in full elsewhere.

SCREWS—Trade continues moderately brisk. We quote as follows: Flat head, bright, 82½ and 5 discount; round head

Eavetroughs

26 or 28 GAUGE.

SPECIAL DISCOUNT for orders, if not less than 1,000 ft. at one time.



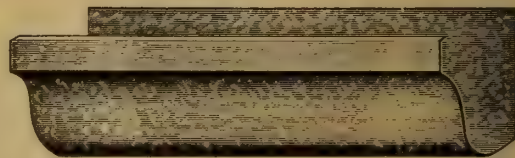
"HALF ROUND"—with round bead on outside.

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with round bead on outside (cannot freeze under bead).

Sizes: 8, 10, 12 and 15 in. girth.



"O. G."—with square bead on inside.
Sizes: 8, 10, 12 and 15 in. girth.

Conductor Pipes

Galvanized

PLAIN OR CORRUGATED.

ELBOWS, SHOES, HOOKS, Etc., supplied, all kinds, for eavetroughing and conductor piping.

WE SHIP ORDERS QUICK.

The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



No motive for using inferior galvanized iron; the better your iron, the less your wages account.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks . . { **FIRE
BUILDING
PAVING**

Sand . . . { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Manufacturers of Limited

CHARCOAL PIG IRON
MONTREAL.

BRAND "C.I.F." THREE RIVERS

PLANTS AT

Radnor Forges, Que.
Lac à lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—There is a fair trade doing in these. Discounts: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—There has been an advance in iron rivets and burrs of 5 per cent. Discounts now are: Black and tinned, 50 per cent.; ditto burrs 45 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—There is no change in this line. Demand is fair, the average volume of trade being done. We quote: Manila, 11¼c.; sisal, 10¾c., and lath yarn, 9¾c.; binder twine manila, 10½c., and sisal, 9½c.

SHOT—Steady at 6c. for ordinary and 6½c. for chilled.

CEMENT—There has been little change in this market. Demand is fair for small lots and prices are steady. We quote: Belgian, \$1.90 to \$2.10; English \$2.30 to \$2.40, and German, \$2.45 to \$2.65, per cask, ex wharf.

FIREBRICKS—A good business is doing in these, and sales have been made freely at \$12 to \$23 per 1,000 ex wharf.

METALS.

The advancing tendency of all heavy iron and metals continues quite marked at all points of production, and higher prices are the rule, both in Great Britain and on this continent.

PIG IRON—This market continues firm, and sales of No. 1 Hamilton are noted at \$20. Scotch iron is quiet, but this is due more to want of supplies than lack of demand, and, for this reason, prices are nominal, no actual quotations being obtainable.

BAR IRON—There has been an advance in bar iron, which is now quoted at \$1.80 in car lots and \$1.85 in smaller quantities. Jobbers will not book far ahead at the rise either, as they look for still higher prices, some predicting \$2 bar iron ere long.

BLACK SHEETS—These also show a very firm tendency, in sympathy with the feeling in the United States. We quote: 10 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25, and 28, \$2.30.

HOOP IRON—Is stiff, with sellers refusing to accept less than \$2.70.

STEEL—Strong, with values stiff as last noted. We quote: Sleighshoe and tire, \$2.45 to \$2.50; spring, \$2.65; machinery, \$2.90, and toe calk, \$2.90.

GALVANIZED IRON—There is a fair movement and prices are firm at \$4.75 for No. 28 Queen's Head and \$4.35 for Comet.

INGOT COPPER—Stiff at 19½ to 20c.

INGOT TIN—With strength more marked on outside markets spot values are firm on the basis of 30c.

CANADA PLATES

"Alloway's" and
"Lydbrook"

the best Half-Bright Plates.

"Dominion Crown"
the best All Polished.

A. C. LESLIE & CO.
MONTREAL.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.
Toronto.

ADAM HOPE & CO.
30 JOHN STREET N.
Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

1C and 1X 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.
Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

PIG LEAD—The market rules firm at \$4.25.

LEAD PIPE—There is a fair trade noted and we quote 7c. for ordinary, and $7\frac{1}{4}$ c. for composition waste, with $17\frac{1}{2}$ per cent. discount.

IRON PIPE—This is firm with a rising tendency, but there is no further quotable change as yet. We quote as follows: Black pipe, $\frac{1}{8}$ and $\frac{3}{8}$ -inch, \$2.98; $\frac{1}{2}$ -inch, \$2.95; $\frac{3}{4}$ -inch, \$3.55; 1-inch, \$4.90; $1\frac{1}{4}$ -inch, \$6.50; $1\frac{1}{2}$ -inch \$8.25, and 2-inch, \$10.50. Galvanized pipe, $\frac{1}{8}$ and $\frac{3}{8}$ -inch, \$5.64; $\frac{1}{2}$ -inch, \$6.64; $\frac{3}{4}$ -inch, \$7.41; 1-inch, \$10.12; $1\frac{1}{4}$ -inch, \$14.03; $1\frac{1}{2}$ -inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—Are in good demand and firm. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4 for 52's.

TINPLATES—There is a fair business noted in tinplates, and prices are steady. We quote as follows: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I. X., \$5; Bradley's, \$5.80.

TERNE PLATE—In fair demand and firm at \$6.25.

COIL CHAIN—Firm and unchanged. We quote: No. 6, $10\frac{1}{2}$ c.; No. 5, 9c.; No. 4, 8c., and No. 3, 7c. per lb.; $\frac{1}{4}$ -inch, \$5.75; 5-16, \$4.50; $\frac{3}{8}$, \$4; 7-16, \$3.55; $\frac{1}{2}$, \$3.75; 9-16, \$3.70; $\frac{5}{8}$, \$3.60; $\frac{3}{4}$, \$3.40, and $\frac{7}{8}$, \$3.30 per 100 lb.

SHEET ZINC—Business fair and values firm at 8 to $8\frac{1}{4}$ c.

ANTIMONY—Unchanged at 10 to 11c.

SPELTER—Firm, with prices stiff for all descriptions at \$7.

GLASS.

The window glass market is firm, and, with supplies coming forward slowly some difficulty is experienced over deliveries. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

This branch of business continues upwards in tendency in most of its departments. Leads are firm and in good demand, manufacturers being much behind their orders. In oils, linseed has scored an advance of 2c., and other articles are firm.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62 $\frac{1}{2}$; No. 2, \$5.25; No. 3, \$4.87 $\frac{1}{2}$.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.25.

WHITE ZINC PAINT—Pure, 8c.; No. 1, $6\frac{1}{2}$ c.; in oil, pure, 9c.; No. 1, $7\frac{1}{2}$ c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 52 to 53c.; boiled, 55 to 56c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 64c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at $8\frac{1}{4}$ to $8\frac{1}{2}$ c.

SEAL OIL—36 to 38c.

COD OIL—37 $\frac{1}{2}$ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, $4\frac{1}{2}$ to $5\frac{1}{2}$ c. for colored, and 6 to $7\frac{1}{2}$ c. for white; oakum, $5\frac{1}{2}$ to $6\frac{1}{2}$ c., and cotton oakum' 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, $13\frac{1}{2}$ c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; $\frac{1}{2}$ -lb. packages, $16\frac{1}{2}$ c.; 1-lb. tins, $15\frac{1}{2}$ c.

MONTREAL NOTES.

Linseed has been advanced 2c per gallon all round and is firm at the rise.

The majority of the trade confidently look for \$2.00 bar iron in the near future.

Fine staples and double-pointed carpet tacks are materially advanced this week.

The Pedlar Metal Roofing Company have secured contract for placing metallic ceilings in the seven-storey McIntyre building, Victoria square. This is the largest contract for this work let in Montreal. The same firm has the contract for the Verdun Asylum and J. F. Moore & Co.'s premises.

ONTARIO MARKETS.

TORONTO, June 2, 1899.

HARDWARE.

TRADER is still fairly active, but the most interesting feature of the wholesale hardware situation is the increased strength which prices are developing in regard to staples, largely on account of the higher values which are ruling on the outside markets, and particularly in the United States, where steel wire and its products have advanced \$5 per ton this week. Barbed wire is about the only line on the local market in which, up to the time of going to press, an active advance has taken place in, in sympathy with the appreciation in wire and wire products in the United States. There have, however, been changes in other lines,

Oakey's The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware, **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND BRASS

Pumps

Force, Lift and Cistern Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited
Manufacturers, Galt, Canada.

E. T. WRIGHT & CO.

Hamilton, Canada.

"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.

Send for new Catalogue.



WE CAN SUPPLY YOU WITH

Eave Troughs and Conductor Pipes

cheaper than you can make them yourself.

We use only the best brands of Galvanized Steel Plate—and you're always sure of perfect quality and fit.

Our Corrugated Expansion Conductor Pipe, in 10-foot lengths without cross seam, is the best pipe made.

Look over our catalogue and send in your order.

In addition to our many stock lines we will make any special pattern desired to order.

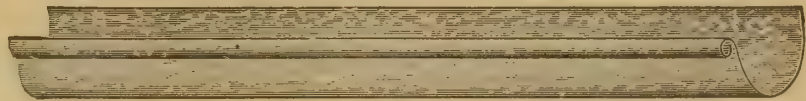


Fig. 145.



Fig. 149.



Fig. 153.



The METALLIC ROOFING CO., Limited, 1179 King St. West, **Toronto**

double pointed tacks, iron rivets and burrs, etc., being marked up. Difficulty is still being experienced in getting delivery of harvest and garden tools, and screen doors and windows.

BARBED WIRE—In sympathy with the advance in the United States, manufacturers and jobbers in Canada on Thursday marked their figures up 25c. per 100 lb., and we now quote \$3.25 to \$3.30 per 100 lb. f.o.b. Toronto. Plain twist is quoted at the same price and staples at \$3.25 for galvanized and \$3 for bright.

SMOOTH STEEL WIRE—The demand is improving for oiled and annealed wire, and a fairly good business is being done. The base price of smooth steel wire is unchanged at \$2.50 f.o.b. factory.

FINE STEEL WIRE—Trade is fair for this time of the year. Discount is unchanged at 25 per cent. f.o.b. factory.

GALVANIZED WIRE—The market is strong in sympathy with the advance in the United States, and higher prices are likely to rule locally before our next issue. In the meantime we quote the same as before: Nos. 6, 7, 8 gauge, \$3.40; No. 9, \$2.90; No. 10, \$3.50; No. 11, \$3.55; No. 12, \$3.05; No. 13, \$3.15; No. 14, \$3.90; No. 15, \$4.50; No. 16, \$4.65.

WIRE NAILS—There is a decidedly strong feeling in regard to prices, on account of the advance of 25c. per keg in the United

States. No change locally has, however, yet been made, \$2.55 f. o. b. Toronto, still being the ruling figure. The demand for wire nails is rather light.

CUT NAILS—There is no change in the situation, either in regard to business or prices. The base price is still \$2.05, Toronto, Hamilton and London.

SPIKES—Prices higher, the discount being 30 instead of 40 per cent.

HORSE NAILS—Trade is still quiet and featureless. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Trade is quiet, although fair for this time of the year. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—An active trade is still to be noted. We quote as follows: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—In all seasonable lines there is

still a good trade being done, although for certain descriptions most of the orders appear to have been placed. We quote: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent.

RIVETS AND BURRS—The discount on both iron rivets and iron burrs has been reduced, the figures now being 50 and 45 per cent. respectively. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 50 per cent.; iron burrs, 45 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The demand is fair and prices unchanged. We quote as follows: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand, 9¼c. per lb.; Deep sea line, 13¼c.

for water laid, and $1\frac{1}{2}$ c. for machine-made; hemp, 7 to 9c.; lath yarn, $8\frac{3}{4}$ c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—A fairly good trade is still to be noted. We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—A fair number of these are still going out. We quote: "Leader," \$60. per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—Trade is fairly good, but without any new features. We quote; Plain building, 28c. per roll; tarred lining, 35c., according to quality; tarred roofing felt, \$1.40 per 100 lb.; carpet felt, \$2.25 per 100 lb.

GREEN WIRE CLOTH—The demand continues good and prices firm at \$1.50 per 100 square feet.

POULTRY NETTING—A good movement is still to be noted in this line. Discount, 50 and 5 per cent.

EAVETROUGH—Trade is reasonably good. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—The demand has fallen off quite perceptibly, although there is still a fair business being done. The discount is still 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—Supplies are still short of the demand. Discount, 60, 10, and 5 per cent.

CEMENT—A brisk trade is reported. Prices are firm, but unchanged. We quote as follows in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The market is fairly active, with the tendency of prices upwards.

PIG IRON—Shipments of pig iron from the Hamilton, Ont., blast furnace during the past month have been large, and the demand is good for forward delivery, with prices firm. We quote No. 1 at \$18.50 to \$19 f.o.b. the furnace, Hamilton. Recent advices from Glasgow received by Adam Hope & Co., Hamilton, state that the pig iron market there has been steady with a large local consumption and large shipments abroad. Scotch warrants were on Wednesday cabled at 64s. 9d., the highest price yet touched in the recent advance.

BAR IRON—There is a good demand at firm prices. We quote \$1.80 to \$1.85 base.

BLACK SHEETS—A good trade is being done this week in this line. We still quote \$2.85 per 100 lb. for 28 gauge.

GALVANIZED IRON—A good many import orders are arriving this week. A fairly good business is being done from stock. We quote as follows: "Queen's Head" and United States brands, 28 gauge, at \$4.75 and \$4.60 per 100 lb., respectively.

COPPER—There is a good demand for copper, both ingot and sheet. We quote 19 to $19\frac{1}{2}$ c. per lb. for ingot, and 23 to $23\frac{1}{2}$ c. per lb. for sheet copper.

PIG TIN—The demand is not as brisk as it was, trade this week being reported quiet. We quote 29 to 30c per lb. for Lamb and Flag, and $28\frac{1}{2}$ to 29c. for Straits.

TINNED SHEETS—Trade has also declined somewhat in this line. We quote: 24-gauge, 6 to $6\frac{3}{4}$ c.; 26-gauge, $6\frac{3}{4}$ to 7c.; 28 gauge, $7\frac{1}{2}$ to $7\frac{3}{4}$ c. per lb.

TIN PLATES—Demand is good at firm prices.

CANADA PLATES—Business is still dull. We quote: All dull, \$2.70 per 100 lb.; half-polished, \$2.60; all bright, \$3.10 per 100 lb.

LEAD PIPE—A good business is being done. We quote: Ordinary pipe, 7c.; waste, $7\frac{1}{2}$ c. Discount, $17\frac{1}{2}$ per cent.

WINDOW GLASS

We have just received a good assortment of all kinds, Star, Diamond and Double. Send in your orders now, before assortment gets broken up. Prices likely to advance.

WHITE LEAD

We are now rapidly overtaking our orders for Exterior Lead. The demand this spring has been enormous. If you want a lead for outside work to send to your customer and produce a profit, get "RAMSAY'S EXTERIOR."

A. RAMSAY & SON
MONTREAL
PAINT MAKERS



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre, and to run 650 feet to the lb.

Headquarters for the celebrated SEWALL & DAY brands of

Binder Twine

Their twines are unequalled. The finest on the market.

John Bowman Hardware & Coal Co.
LONDON, ONTARIO.

PIG LEAD—A fair movement is reported at 4¼ to 4½c. per lb.

IRON PIPE—Demand is still brisk and prices firm. We quote as follows: ½ to ¾ inch, \$3.10; ¾ inch, \$3.40; 1 inch, \$4.85; 1¼ inch, \$6.50; 1½ inch, \$8; 2 inch, \$11; 2½ to 6 inch, discount 60 to 10 per cent. Galvanized pipe: ½ inch, \$5.75; ¾ inch, \$7; 1 inch, \$9.85; 1¼ inch, \$14; 1½ inch, \$17.50; 2 inch, \$24.50.

RANGE BOILERS—Demand is good and prices firm at the recent advance. We quote as follows: Galvanized, 30 gals., \$8; 35 gal., \$9; 40 gal., \$10. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—The market is firm as to price and a moderate business is being done. We quote: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ⅝ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—A fair business is being done at 8¼c. for cask lots and 8½c. for small lots.

SPELTER—Trade is quiet, but prices are unchanged at 7½ to 7¾c. per lb.

SOLDER—The demand continues good and prices steady and unchanged. We quote: Half and half, 17c.; refined, 16½c.; wiping, 16c.

ANTIMONY—Business is inactive and prices unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

Though trade in the city is good, the general verdict is that the unfavorable weather has interfered with trade in the country. Oil and turpentine are not moving as briskly as usual at this season of the year. Liquid paints are moving fairly well, sales showing that their popularity is still increasing. The sale of sundries is not as large as customary, because of the backward weather. The backwardness of trade at present is likely, however, to result in a good June trade. White lead is still steady. Linseed oil has advanced 1 cent per gallon. The feeling regarding turpentine is unsettled, as prices here depend on the new crop, which is largely controlled by manipulators on the primary market. At present the market is steady after the decline of 2c. noted last week. Stocks of all materials except whiting and paris white are abundant. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 22c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

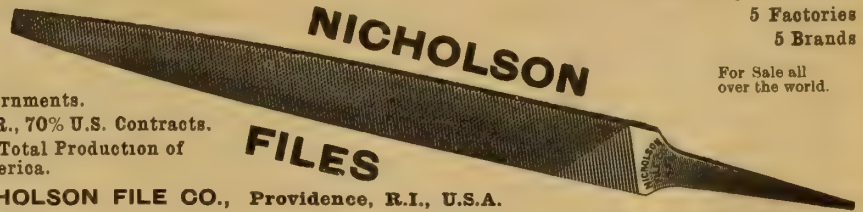
PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production

5 Factories

5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass. Also of a durable, highly-polished material called "MARBLETTE," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. Benders, Embossers, Brilliant Cutters, etc., etc. Estimates and Designs on application.

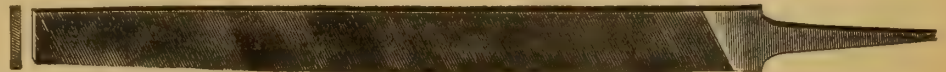
Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

ESTABLISHED 1867.

GLOBE FILES AND RASPS

Quality unsurpassed. Prices always right.

ARE STANDARD



Sold by all prominent Hardware Merchants throughout the Dominion.

WALTER GROSE, —
Montreal, Selling Agent.

THE GLOBE FILE MFG. CO.,
PORT HOPE, ONT.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 54c.; 4 boiled, 1 to 4 barrels, 57c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 64c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

There is a fair demand, but the backward season and the fact that import orders, which were bought so much below present prices, are likely to arrive in a few weeks, has limited sales considerably. Prices are firm. We quote: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

Clean dry bones are 10c. dearer this week. Scrap metals are all decidedly firm. We quote: Agricultural scrap, 50c. per cwt.; machinery cast, 55c. per cwt.; stove cast scrap, 35c.; No. 1 wrought scrap, 45c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 13c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 45 to 50c. per 100 lb.

COAL.

Business is moderate; prices unaltered. We quote anthracite at Buffalo and bridges: Egg, stove and nut, \$4.25 per gross

ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

PETROLEUM.

Business is dull. The feeling is steady. We quote in barrels, Toronto, as follows: Canadian, 14c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

Double-pointed tacks are now quoted at 85 and 10 per cent. discount.

Local quotations on barbed wire have been advanced 25c. per 100 lb.

The discount on escutcheon pins has been changed to 55 per cent. for brass and 45 per cent. for steel.

The discount on wrought pressed spikes has been reduced to 30 per cent. f.o.b., Toronto, Hamilton and London.

H. S. Howland, Sons & Co. have been advised of a shipment of screen doors and windows. It is due to arrive on Monday.

PERSONAL MENTION.

Mr. W. Smail, of the Canada Horse Nail Company, Montreal, was in Toronto the early part of this week on business.

SOMETHING NEW IN VARNISH.

Henderson & Potts are offering to the trade an entirely new article in the varnish line. It is called "Anchor" brand straw hat enamel, and is used for enameling straw hats, both old and new, and comes in 18 different shades. It is put up in small tins to retail at 10c. each. It is made thin and can be applied with a brush the same as ordinary paint. It dries quickly, and is guaranteed not to wash off. They have only put this varnish on the market within the past week or so and already it has created a good demand.

They are sending out attractive show-cards, showing the effects of this varnish on straw plait, and anyone wishing one will be supplied upon applying to the firm.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE price of coil chain has again advanced in the United States. Cold rolled steel shafting has been advanced 5 per cent. The discount is now 35 per cent. The discount on boiler tubes has been reduced 5 per cent. Structural steel manufacturers will soon call a meeting to advance prices, as they are not commensurate with other materials. Plate will also be advanced, probably within a week. Light rails have responded, but heavy sections remain at \$25.—American Manufacturer, Pittsburg.

MOVEMENT OF SOUTHERN PIG IRON.

During the first quarter of 1899 the shipments of pig iron from Alabama and Tennessee points were 356,000 tons, and of cast iron pipe, 39,000 tons. Of these amounts the Birmingham district, Ala., furnished 198,000 and 15,000 tons, respectively. During the same period of 1898 the shipments of pig iron were 312,000 tons, and of cast iron pipe 32,000 tons. Exportations of pig iron during the first quarter of 1899 were 52,000 tons, and of cast iron pipe 6,700 tons. The figures for last year (same period) were 48,000 and 5,000.—American Manufacturer.

HINGES DEARER IN PITTSBURG.

Among the few articles that have advanced in price are strap, T and wrought butt hinges, which have been increased from 10 to 15 per cent.. The discount on carriage bolts is 65 and 5 off; machine bolts, 70 off; lag screws, 75 and 10 off; bolt ends, 70 off. The trace chains discount is changed from 75 off to 60 off.—American Manufacturer, May 26.

HOPING FOR BETTER TIMES FOR TIN PLATES.

The shipments of tinplates last month were equal to those in April, 1898, and their total value was greater; but for the four months of the year, both as to quantity and value, there is a heavy decline. Still, the feeling is that better times are ahead, and that, whether the business in future be great or small, it will have this advantage, that it will not be done without some profit—Iron and Steel Trades Journal.

OVER 13,500,000 TONS OF PIG IRON.

As the result of an exhaustive inquiry, Rogers, Brown & Co. state that reports point to an expected increase in consumption of pig iron this year over last of 35 per cent. Notwithstanding a gain of nearly 40 per cent. in current iron production as compared with two years ago, stocks on April 1 were less than one-third what they were two years

ago. The pig iron production of the United States, taking certain decades, becomes very interesting in a consideration of the present situation, as up to 1890 production about doubled every 10 years:

	Gross tons.		Gross tons.
1859.....	750,559	1860.....	821,223
1869.....	1,711,285	1870.....	1,665,178
1879.....	2,741,852	1880.....	3,835,191
1889.....	7,603,638	1890.....	9,202,703

In 1898 the production was 11,773,934 tons, and if history repeats itself 1899 should furnish 15,000,000 tons at least, which is altogether impracticable. The indications, in fact, are that the country has not made provision for the expanded business and extraordinary demand. The probable increase to be realized this year over last in the blowing in of silent furnaces throughout the country, together with a few new ones yet to be completed, will add to the production of 1898 approximately 1,100,000 tons, so that this year's production will probably reach 12,875,000 gross tons. If expectations of those planning to start furnaces are fully realized the year's output will go to 13,500,000 tons.

ARE AMERICANS CORNERING SCOTCH PIG IRON?

"The enterprise and audacity of the American speculator appear to be insufficiently employed at home, so that the older fields of Europe are being experimented upon," says the London Iron Trade Review. "It is reported that the London operators who are pulling the strings of the present squeeze may be the Lewisohn-Rockefeller combination, who are reported to have credited an agent in London to the extent of £2,500,000 for the purpose of buying up warrants, and to be at present running about 200,000 tons of the metal. It is also suggested that there may be some English and Scotch speculators acting in concert with an American group. What seems certain is that a powerful clique of speculators of some sort in London is manipulating the market, and has practically got control of the Glasgow division, after squeezing the bears there to a pretty tune."

PRINTING ON TIN.

There are several methods of printing on tin, the simplest being that of bringing the lithographic stone into direct contact with the tin that receives the impression, remarks an exchange. The persistency of this method may be inferred from the fact that an eminent firm of printers' engineers has just produced a new machine for printing on tin direct from the stone. Another method very generally in use consists in printing from the stone on to rubber rollers, from

which the device is transferred to the tin; this is sometimes called the French method, and its special merit is, of course, that it prevents the injury that frequently arises from contact between the two hard substances, stone and tin. In 1887 and 1888 Mr. Rees patented a method by which the device is first printed on varnished cloth, canvas, vellum, or other material, stretched over cardboard or other stiffener, and covered with a thin film of hydrocarbon oil, or of turpentine, the impression being afterwards transferred to the tin plate. The printed tin is usually varnished and stoved, in order to give greater permanency to the design.

BRITISH MINING STATISTICS.

According to mining statistics just published by the Board of Trade, there have never been so many persons employed in and about the mines of the United Kingdom as there were last year. Taking the mines of all classes, we find from the General Report of Statistics of Mines and Quarries for 1898, which have just been issued by the Home Office, that the total number of persons employed was 741,125. As compared with 1897, this was an increase of no less than 12,412 persons. Of the total number of persons employed in mining last year 706,894 worked at 3,249 mines under the Coal Mines Act, that is to say, all mines of coal, stratified ironstone, shale, and fireclay; while 34,231 persons worked at 752 mines under the Metalliferous Mines Act, which includes all mines other than those already mentioned. At the mines under the Coal Mines Act 567,124, or about 80 per cent., were employed below ground, and at the other class of mines 20,173 persons or about 59 per cent., worked underground. Women and girls are, of course, no longer employed below ground, but a considerable number of them still work at the pit mouth. Of the 179,770 surface-workers at mines under the Coal Mines Act, 4,617, or 3.3 per cent., were women and girls, and of the 14,058 surface-workers under the Metalliferous Mines Act 509, or 3.6 per cent. were women and girls. With the record beaten in the number of persons employed in and about mines, we are prepared to find the output of minerals standing also at its highest recorded total. Last year the mines under the Coal Mines Act turned out 215,161,954 tons of minerals, and the other mines 3,813,812 tons. Of this output 202,042,243 tons were coal, 2,783,219 tons fireclay, 7,901,046 tons ironstone, 2,167,100 tons iron ore, 2,137,993 tons oil-shale, and the rest sundry minerals. But the total output of coal alone, curiously enough, shows a decrease as compared with the previous year.—Commerce, London, Eng.

THE SHERWIN-WILLIAMS CO.'S CANADIAN MANAGER.

MR. C. C. BALLANTYNE, the newly appointed Canadian manager for The Sherwin-Williams Paint Co., was born 32 years ago in Dundas county, Ont. After attending the public school there, he, at the age of 14 years, came to Montreal and took a year's course at one of the commercial colleges. In the following year he secured a situation as junior clerk with McArthur, Corneille & Co., where he remained for nine years, during which time he had worked his way up to the position of city traveler.

In 1891, he severed his connection and joined the traveling staff of W. H. Cottingham & Co., which position he held until this firm was amalgamated with The Sherwin-Williams Co., when he was appointed manager of the sales department in the new firm. This position he filled so acceptably that when Mr. Cottingham was called to Cleveland as general manager he was promoted to the management of the Canadian branch, as stated in a previous issue of **HARDWARE AND METAL**.

Mr. Ballantyne is still a young man, and under his management the Canadian business of The Sherwin-Williams Co. may be expected to make that steady development which it did under his predecessor, Mr. Walter H. Cottingham, now the general manager of the company.

TRADE FOLLOWS THE ADVERTISER.

Advertising reflects the intelligence of a business house and pictures the character of the goods in the mind of the purchaser. The public, in the present great variety of utilities, is made aware of an article and its merits before a demand for it is created. A Chicago concern, according to Iron and Steel of that city, last year started in the manufacture of what would have proven a salable article properly handled, but the company's enterprise stopped with the equipment of the machinery plant and well appointed offices. With bright quarters, good prospects and an ample supply of fine cigars the manager proceeded to pile up a product that every hardware jobber and dealer would have willingly pushed into sale, had they been informed of the opportunity. A few thousand circulars sent out failed to start trade, and \$21,000, the extent of the capital of the company, was lost and an assignment made, and the public is yet unaware of the existence of the goods. The perfect factory, luxurious offices nor fine tobacco smoke would move them, and the manager was without resources. This mistake is constantly being made by hundreds of concerns that are never heard of after their incorporation.

Also many patented articles that would prove valuable, if pushed, stop here. Manufacturing an article and creating a demand for it are two separate and distinct parts of business, yet there are many men who manage both parts successfully. To turn out a product and not sell it means bankruptcy. To try and sell it before a demand is created is nonsense. Inform the trade of the merits of your goods, with a few hints of your business policy, if you like, and if the goods really possess merit, they will find successful demand. Produce good goods and advertise to make them known and sales will follow.

HAS HAD A SUCCESSFUL YEAR.

The merchants of Parkhill, Ont., are not talking "dull times" nowadays. One of them, A. W. Humphries, hardware merchant, told a representative of **HARDWARE AND METAL**, that last year's business largely exceeded that of any of the previous 15 years he had been in Parkhill. Besides the additional business, Mr. Humphries added materially to his bank account on account of the rise in values, especially in wire and nails, with which he was well stocked before the advance. Improvements made during the past year make Mr. Humphries' two stores bright, up-to-date business houses.

Both are now lighted with acetylene from cellars to top floors. The installment of a typewriter, and a large cash register, and the introduction of the cash system make this business one of the most modern type.

Mr. Humphries has been a subscriber to **HARDWARE AND METAL** from its first issue, and has derived so much good from it that he says would pay \$4 per year for it rather than not have it.

FOR SALE.

A COMPLETE TINSHOP OUTFIT OF Tools and Machines, en bloc or separately. Apply to The Gurney Foundry Co., Toronto. (22)

A. HOLLAND & SON, WHO STARTED A hardware business on Sparks Street, Ottawa, two years ago, are offering their stock and a valuable corner for sale. It is a good opening for an experienced hardwareman with capital. Messrs. Holland will devote themselves to Calcium Carbide and Acetylene Gas business exclusively. (22)

SITUATION VACANT.

WANTED—HARDWARE CLERK, MUST have good experience and be a hustler. Apply to Box E, **HARDWARE AND METAL**. (22)

THE ABBEY IMPROVED CHILLED SHOT COMPANY, LIMITED, Newcastle-on-Tyne

All England Championship Cup, value £100, also stake £100, in all £200, on 7th December, 1898, the winner fired with our shot and writes us: "You will be pleased to hear I won the All England Championship Cup. **I fired with your chilled shot.** Indeed, I would not use any other, as I know from experience it makes the best patterns and kills best."



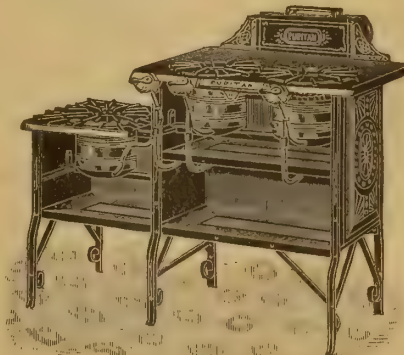
STEEL LETTERS and FIGURES.

If your Jobber does not keep our steel-letters and figures send to us direct, we make everything in steel stamps.

HAMILTON STAMP & STENCIL WORKS
Hamilton, Ont.



Puritan Wickless Blue Flame.



**This is the only Wickless
Blue Flame Oil Stove that
has given satisfaction. . . .**

The oil tank is made of Brass, also Brass Tubes. Needle-pointed Valves with shut off and Brass Generators. All these parts will wear for many years. It produces more heat than gas or gasoline. One gallon of Canadian Oil will last for 22 hours. It is perfectly odorless.

Send for catalogue and secure the agency for your town.

R. BIGLEY, Canadian Agent

96 and 98 Queen Street East

— **TORONTO.**

THE INSOLVENCY AGITATION.

At the council of the Montreal Board of Trade, last Thursday, the metal and hardware section submitted the following resolution: "That this association regrets that there has been no legislation at this session of Parliament in the passing of a bill for the equitable distribution of the assets of insolvents throughout the Dominion, and respectfully requests that the council of the board of trade would so express itself upon this subject."

Mr. Wm. McMaster, managing director of the Montreal Rolling Mill and chairman of the insolvency legislation committee, reported that a letter had been received from Mr. Fortin stating that, being unable to secure Government support to his bill, he had no alternative but to drop it. Some

strong expressions were used in regard to the stand of the Government.

The council then adopted the following resolution with respect to the Government's action in declining to support the passing of insolvency legislation during the present session:

"That, in view of the earnest representations of the commercial communities of this country in favor of insolvency legislation, strengthened, as they have been, by frequent unfavorable public and private references in Great Britain to the lack of such legislation, and to the iniquitous character of some of the Canadian Provincial laws governing assignments, the council of the Montreal Board of Trade expected that the Government would, at this session of Parliament, secure the passage of a bill for the equitable distribution of an insolvent's estate, that expectation being greatly

strengthened by the circumstance that the commercial and banking interests, in their anxiety to secure such legislation, had agreed to compromise their divergent views on certain points of Mr. Fortin's bill, introduced last session.

"That the council, therefore, learned with keen disappointment of the Government's decision not to support the adoption of insolvency legislation at this session of the Dominion Parliament, and the council hereby expresses its conviction that if the Government does not take early opportunity to insure the passage of an insolvency act, the absence of such a law will have a most unfortunate effect upon the commercial future of this country, and that, as in the past, Canada will continue to suffer in the opinion of other countries whose laws secure justice to the creditors of an insolvent debtor."

Standard Steel Toe Calks

Sizes of
Blunt:



WRITE
FOR
DISCOUNTS.



Sizes of
Sharp
Calks
below for
Fall of 1899:

No.	LENGTH.	SIZE.
0.....	1½ inch.....	3/8 x 5/16
1.....	1½ ".....	1/2 x 5/16
2.....	1¾ ".....	9/16 x 3/8
3.....	2 ".....	5/8 x 3/8

Price, \$1.25 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

No.	LENGTH.	SIZE.
4.....	2¼ inch.....	3/4 x 3/8
5.....	2½ ".....	3/4 x 3/8
6.....	2¾ ".....	7/8 x 7/16
7.....	3 ".....	7/8 x 7/16

No.	LENGTH.	SIZE.
0.....	1½ inch.....	9/16 x 3/8
1.....	1¾ ".....	9/16 x 3/8
2.....	2 ".....	11/16 x 7/16
3.....	2¼ ".....	3/4 x 1/2

Price, \$1.50 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

JAMES PENDER & CO., Limited, Sole Mfrs. **Saint John, N. B., Canada.**

Henderson & Potts

NOVA SCOTIA PAINT AND VARNISH WORKS.

MANUFACTURERS OF

Lead, Zinc and Colored Paints,
Varnishes, Japan Coach Colors,
Ready Mixed House and Floor Paints,
Wood Stains, Japanese Enamels,
Bicycle Enamels, Putty, Dry Colors,
Marbleine Wall Tints, etc., etc.



Sole Agents for the Dominion for

Brandram's

Celebrated **ENGLISH** White Lead.

HALIFAX, and 747 Craig St., **MONTREAL**

1899 ISSUE DUE TO ARRIVE JUNE 10th.

FOR SHOT GUNS

(Ordinary Cases)



NEW ISSUE, 1899.

Charge for 12-Bore Cartridges,
38 Grains or 3 Drams.



**High Velocities,
Low Pressures,
Long Range.**

Extra Hardened, Double-Waterproofed, Reliable,
Safe, no Jar, Hard Hitting, Quick and Strong,
with Perfect Combustion.

FOR SHOT GUNS

(Cone Base Cases)

"Shot-Gun ... Rifleite."

THE NEW CONDENSED SMOKELESS POWDER

MADE WITHOUT NITRO - GLYCERINE.

Charge for 12-bore Cartridges,
37 Grains or 2 Drams.



Absolutely Smokeless. Excellent patterns, Pressures not greater than No. 6 Black, with velocities and quickness of No. 3, unaffected by exposure to damp or cold, and cannot be dried to give pressures beyond that of No. 4 Black.

No Nitro-Glycerine, no corrosion of barrels; entirely consumed in the barrel. No residue, no objectionable or deleterious gases, no unpleasant "Jar," no Gun Headache.

The Smokeless Powder & Ammunition Company, Limited,

28 GRESHAM STREET, LONDON, E.C.

LEWIS BROS. & CO.,

Sole Agents for Canada,

....MONTREAL.

USE OF SANDLESS PIG IRON IN THE FOUNDRY.*

By W. A. Moran.

DOUTBLESS one of the most important subjects before the foundrymen of the world to-day, is being earnestly discussed, and put to practical tests wherever possible, aiming to arrive at a conclusion, which will show the merits, or demerits of sandless pig iron in the foundry, as against the use of sand cast iron. Of course, foundrymen, who all their lives have judged pig iron by its appearance, do not look kindly upon a departure which at one sweep destroys the knowledge gained in a lifetime. Nevertheless, in these days of progress, many practical problems have been worked out successfully by the application of scientific methods to actual demonstrations, which show decided improvement over the old methods. And those who still cling to the old and out-of-date ideas, will sooner or later be compelled to withdraw from the race, from not having taken advantage of the experience acquired by their more progressive competitors.

Much has been said about sandless iron for the foundry, and in nearly every case it has been admitted that sooner or later the use of sand-cast pig iron will be a thing of the past, many agreeing that the proper way of making up a mixture should be by analysis only. It is an established fact, as many of you know, that there are great advantages in making steel from sandless iron. Likewise, founders who have adopted sandless pig iron fully appreciate and admit that there is an advantage by its use; and were I able by this address to give you the experience I have had, I am quite sure those who are still skeptical would be convinced that sandless iron for the foundry with a mixture based upon analysis is the proper thing, and that by its use superior results are obtainable.

Doubtless many of you were of the same opinion that I was, before I went through the experimental stages—that iron cast in iron molds would be unfit for foundry use, believing that when so cast there would be a chill in the pig, which the foundrymen thought would follow into the castings made from it. I have learned, however, to my entire satisfaction that this is not the case. This can be seen by examining some of the samples I have brought with me, if you will take the trouble, and thus be relieved of any doubt. Several years ago we began to use pig iron cast in stationary chills with good results, but with the sandless pigs from the Uehling casting machine we get still better results. The iron is cleaner and more uniform. This is no doubt due to the fact that instead of running direct from the

furnace into pig beds, it is collected in large ladles in which it is not only thoroughly mixed, but the impurities have time to rise to the top, carrying with them much of the sulphur and all the slag, etc. The iron furthermore is absolutely free from sand and scurf, and for that reason comes much cleaner from the cupola. We have used nothing but sandless pig iron in our foundry for the past two years.

We make all kinds of machinery castings, some of which are quite thin, and require very fluid iron. The pig metal we use averages 1.00 to 1.50 in silicon, graphite carbon 2.85, combined carbon .45, sulphur not to exceed .03. My foundry record, for the period during which we used nothing but sandless iron shows fewer bad castings and considerable economy in fuel and time. We get hot metal by using one pound of coke to 10½ pounds of metal. When we were using sand iron the ratio was 1 to 7. In fluxing we now use 100 pounds of limestone for 20 tons of metal, while when using sand iron it required 150 pounds of limestone for 20 tons of metal. Our cupola does not choke or slag, and we run the 20-ton heat without waiting for metal. The average loss between the iron weighed into the cupola and that of the castings was 6.43 per cent. in 1898, and the average amount of bad castings was 1.65 per cent. The shrinkage is considerably less than what it was when running on sand iron, we now make our patterns allowing 1-16-inch to the foot for shrinkage. This I believe is less shrinkage than is generally expected in the average foundry. Our experience with sandless pig iron in the foundry is so satisfactory that we shall not voluntarily return to the use of sand iron. There is a large economy in fuel, economy in flux, more prompt and satisfactory melting, a saving in time, reduced wear and tear, and a less per cent. of defective castings.

CASTING ALUMINUM.

Foundrymen equipped for brass casting have found that they can very largely increase their business by making aluminum castings, as they are made with little difficulty and without special appliances other than those usually found in such shops, says an exchange. The crucible employed should be a plumbago, or black lead crucible heated over a coke oven. The ordinary sand mould can be used, the only necessary precaution being that the mould should be well ventilated to allow the gases to escape. Pouring is done best at a dark, cherry-red heat, just above the melting point of aluminum.

J. A. L. Jutras, general merchant, Richmond, Que., has assigned.

A TARIFF CRITIC.

Editor **HARDWARE AND METAL**.—In your issue of May 27, I note a paragraph stating that an Order-in-Council had been passed, etc., re oath of exporters. Now, while the order may lessen what was certainly irritating to the foreign shipper, there is a greater irritation along the same lines, and one that shippers to Canada, as well as the Canadian importers, find most fault with. I speak of the regulations, that compel the shipper to expose the prices he gets for his goods in the home market on his bill of lading or bill of entry. They compel the importer who is a cash discount buyer to pay more for the goods than they otherwise would do, as the foreign manufacturer, without an exception, is willing to stand a part of the duty, and especially that part of it which discriminates in favor of English goods. I have been called upon a great many times to explain the reason for this action on the part of the Canadian Customs, and I have explained it in this way: That the law was not intended to affect the general trade with Canada, but to prevent foreign manufacturers from selling large job lots at slaughter prices to Canadian jobbers and wholesalers. But this explanation does not satisfy. They say the large jobber who would sell a job lot below cost is like one in 100 that export to Canada, but the law strikes the 100 just the same. Now, being a Liberal in politics, I do not like to attribute this Order-in-Council to a desire on the part of the Liberal party to force the National Policy harder than the old party ever did on the country, but it looks as if I should be forced to believe it in the end.

One illustration (one of 100 that I could easily name), will show the peculiar inconsistency of that policy in certain conditions. A party showed me an article just patented in Canada that is being manufactured extensively in the United States. He thought, owing to the Customs regulations, he would be obliged to manufacture in Canada, as 35 per cent. added to the price he gets here would make the price too high for the article in Canada, and it would have to retail at a higher price in Canada than in the United States. He said that if he took his dies to Canada two men could stamp out enough of the article to keep the trade going, and he could save the 35 per cent. duty, or the most of it. This is where the absurdity of the National Policy comes in. If, for the satisfaction of having this article manufactured in Canada, the Government is willing and eager that this man should come into Canada with his little die and stamp, and two men, and manufacture for a population of 5,000,000 people, and send his 35 per cent. profit back to a foreign country, this should be called the penny wise and pound foolish policy, even if it is a National Policy.

New York, May 29.

A SUBSCRIBER.

*Paper read before the Pittsburg Foundrymen's Association.

IRON ORE AND IRON PRICES.

The iron and steel industry at the present time easily holds the "centre of the stage," owing to causes at home and abroad which it would seem were not clearly foreseen even by the best-posted men in the trade a short time ago. Evidence of this is found in the very moderate advance exacted of consumers by iron-ore producers in this country, who appear to have contracted for their entire output at disproportionately low figures when the advance in pig iron and steel since then is considered. It is significant of the influences making for a dearth abroad that the first intimations of a possible shortage of crude supplies abroad appeared in journals outside of the iron trade, though it is possible that the original estimates of such dearth were made up by persons well acquainted with that trade. Even now, there is a tendency among some organs of the iron trade abroad to make light of the matter and to confidently predict a much increased production if prices advance much higher. There is a disposition by both bulls and bears, in fact, to agree only upon one thing, and that is that the key to the present situation lies in the question of ore supply. There is conceded to be a large reserve force of furnaces available for duty at varying periods of time, providing ore supplies can be found, but agreement has not been reached as to this latter point. On the one hand, much is confidently predicted as to possible increased supplies of ore from Spain, from Sweden and from other less prominent producing sections; but, on the other hand, the claim is made that Spanish supplies from the best-known sections are all sold ahead, and that German consumers have secured all easily available supplies from Scandinavian sources.—Bradstreets.

THE "HONEST" CYCLES.

The value of a reputation for sterling worth and integrity was never better exemplified than during the past week, when the Iver Johnson's Arms and Cycle Works, of Fitchburg, Mass., brought out two new models of their "Honest" cycles, listing at \$25 and \$35.

Hardly had it become known that such bicycles could be furnished, when orders commenced to come in, the purchasers not even seeing the samples, but relying on the company's reputation for putting out nothing but honest, reliable goods. Their confidence is very gratifying to the makers, who claim it is not misplaced, as the new models have the same general construction as the higher-priced ones; drop-forged connections throughout, and that the new models are among the finest ever offered at such prices and valuable additions to their line of "Honest" cycles at honest prices."

We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

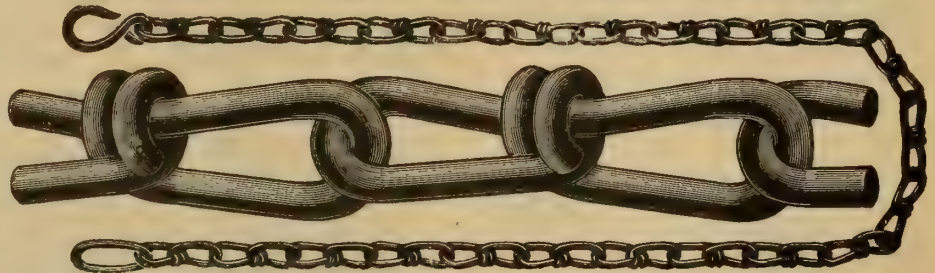
Manufactured only by ...

THE STANDARD CHEMICAL CO., Limited

Factories { Fenelon Falls.
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Gooderham Building, **TORONTO**

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

HIGHWAY ROBBERY

is being daily perpetrated on all manufacturers.

The robber's name is Friction.

If you wish to arrest him, employ

Syracuse Babbitt Metal

A most persistent worker. **COOL** under most trying circumstances. No noise. No undue excitement.

CHARGES MODERATE.

For terms and particulars, write

Syracuse Smelting Works

Sole manufacturers of Columbia Phosphor Tin.

Factories, **SYRACUSE, N.Y., MONTREAL, CAN.**

CAPITAL CITY BUSINESS COLLEGE.

A. M. Grimes, M. A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00; White's Phonography, per month, \$8.00; Telegraphy, per month, \$8.00; Bookkeeping and Business Practice, per course, \$35.00; Bookkeeping and Business Practice, per month, \$5.00; Penmanship, per month, \$3.00; Night School, per month, \$3.00; Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

WESTERNIncorporated
1851.**ASSURANCE COMPANY****Fire and Marine**

Capital, subscribed \$2,000,000.00
Capital - - - 1,000,000.00
Assets, over - - 2,340,000.00
Annual Income - 2,290,000.00

Head Office: TORONTO, ONT.

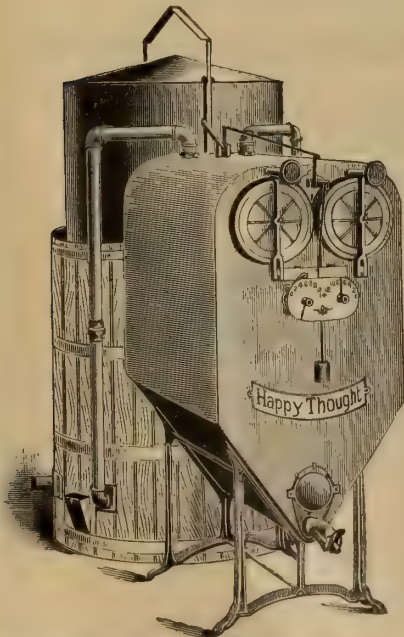
Hon. Geo. A. Cox, President. J. J. Kenny, Vice-President.
C. C. Foster, Secretary.



"BUILD TO-DAY THEN,
STRONG AND SURE
WITH A FIRM AND
AMPLE BASE."
— Longfellow.

DO YOU?

WISH TO BUILD
an
advertisement
in the
CONTRACT-
RECORD,
TORONTO
will bring you
tenders from the
best contractors

ACETYLENE GAS.

Send for Catalogue—the best machine made—no waste or after generation—special approval from Fire Underwriters.
THE GUELPH ACETYLENE GAS CO., LIMITED
GUELPH, ONT.

Best Crucible Steel.

MCCLELLAN FILES

Fully Warranted.



Sold by CANADA HARDWARE CO., LIMITED, MONTREAL, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO.,Gooderham
Building,**Toronto****Geo. D. Wood & Co.**

WINNIPEG, MAN.

Importers of and Dealers in

**SHELF AND
HEAVY**

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

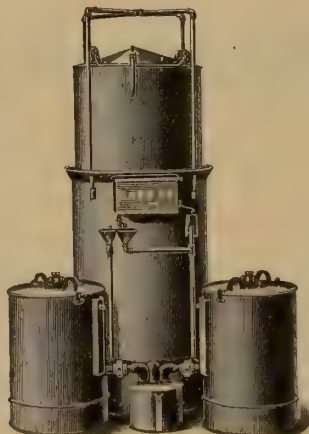
Stock now complete in seasonable lines. Prompt shipment.

Letter orders receive special attention.

ACETYLENE GAS.

The Safety Light and Heat Co. have in successful operation machines from 5 to 200 lights.

Simplicity and safety are the leading features. Being deeply water sealed it cannot leak. It makes the gas cool, washes it twice, and thus makes only pure gas. Never clogs the burners.

**THE SAFETY LIGHT & HEAT CO.**

Sole proprietors and manufacturers
of the celebrated

Dundas, Ont.**CLIFF-WARDLAW GENERATORS.**

Send for Booklet.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of Tinplates, Tinned Sheets, Terne Plates, Canada Plates Galvanized Sheets, Imitation Russia Sheets Black Sheets—Iron and Steel—Hoops and Bands, Proved Coil Chain, Brass and Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

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Petrolia, Ont.

Headquarters for ..

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

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Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
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1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom, Hammer, and all kinds of Handles. Neck Yokes, Singletrees, and Doubletrees, Bench Saws, Exercise Clubs, Baseball Bats, etc., etc. Do you sell any Shaved Pattern and Octagon Axe Handles? The largest and best trade in Canada does, because they give best satisfaction. All stock air-dried, not kiln-dried. If you are going to be in it, place your order with

GARDNER BROS. & CO.**ARE YOU A BUYER of****Hardware, Metals,
Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest issue of **HARDWARE AND METAL**, the leading authority on these trades, will be sent to you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

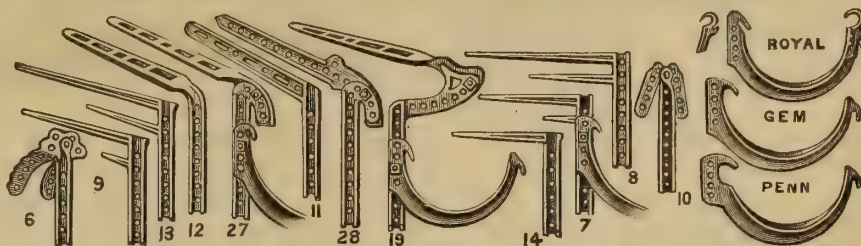
Board of Trade, MONTREAL.
26 Front St. West, TORONTO.
109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

A. B. JARDINE & CO.
HESPELER, ONT.

BERGER'S GUTTER HANGERS

The very best made. Strong and easy to put up and adjust. By proper selection of the shank the requirements for any style eave will be met. Other kinds of Hangers, Pipe Hooks and Fasteners, Gutter and Pipe, and a general line of **Tinners' Hardware and Roofers' Supplies.**

BERGER BROS. CO.,**PHILADELPHIA, U.S.A.****STEVENS IDEAL, NO. 44**

This is as reliable and accurate a rifle as can be constructed. Placed at a moderate price to meet the demand for such a rifle. It is recommended without qualification and fully guar-

anted. Made in the following styles :

.22 Long-Rifle R. F., 25 Stevens R. F., and .32 Long R. F. Standard length of barrel for rim-fire cartridges, 24 inches. Weight 7½ pounds.

.25-20 Stevens C. F., .32-40 C. F., .38-55 C. F., and .44-40 (.44 W. C. F.) Standard length of barrel for center-fire cartridges, 26 inches. Weight, 7¾ pounds.

Half-octagon barrel, oiled walnut stock and fore-arm, rifle butt, case-hardened receiver, sporting rear and Rocky Mountain front sight.

Price, with standard length of barrel, \$13.00.

Can be obtained of any of the leading jobbers in Canada at liberal discount from this price.

Send for complete catalogue of our full line of Rifles, Pistols and Machinists' Tools.

J. Stevens Arms & Tool Co., P. O. Box 217, Chicopee Falls, Mass., U.S.A.**Home Work**

You can keep on papering the walls of your rooms, if you want to, but there is no economy in it. Now try that healthful and absolutely permanent wall coating that won't decay, rub off or peel—Church's Alabastine (never sold in bulk.)

If you cannot get your painter, apply it yourself. All you will need is cold water, and the ordinary wall brush. Think of the money you save!

There are 16 beautiful tints and white—ask your hardware dealer to show them to you or send to us for them. They are free!

Church's Alabastine

For sale by paint dealers everywhere

Free, also, to any one who will mention this paper, a 45-page book, "The Decorator's Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co. (Limited), Paris, Ont.**HUTCHISON, SHURLY & DERRETT**

**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared to furnish the best made goods in the market at closest prices and make prompt shipments.

Hand Laid Cotton Rope and Clothes Lines,**Cotton and Russian Hemp Plough Lines, plain and colored.****Cotton and Linen Fish Lines, laid and braided.****Netted Hammocks, white and colored, Tennis and Fly Nets.****Skippping Ropes, Jute, Hemp and Flax Twines.**

HEATING AND PLUMBING

BUILDING ACTIVITY CONTINUES.

DURING the week ending May 31, permits have been taken out in Toronto for \$90,000 worth of new buildings. This makes a total in May of \$361,235, against \$178,745 in May last year, \$102,526 in 1897, and \$63,515 in 1896. Thus, the total for May this year is greater than for the months of May in the three previous years combined. It was the biggest month since 1892, when the permit for the new court house was issued.

The natural result of this activity is that plumbers and others interested in the building trade are unusually busy.

There is no question, however, but the feeling is general that, as far as the plumbing trade is concerned, to-day it is not what it should be. Prices continue even lower than they have been, notwithstanding the advance in the price of materials. Added to this is the fact that the journeymen plumbers have asked for a conference with the masters. This is to be held this week, and, in the meantime, there is certainly some uneasiness lest the journeymen should ask for higher wages, as they have been urged to do by an organizer from the United States. At present, there is the best of good feeling between the masters and the journeymen, and the likelihood is that any difficulties will be settled by the conference.

How the difficulty to get fair prices on contract work may be settled is yet to be discovered. There seems to be a fear that if the plumbers were to get together and ask a fair price in tendering that building might be discouraged. But in the face of the bricklayers' and stonemasons' strike in April and May, there were permits issued for more than in any corresponding period for ten years. Doubtless the strike caused some uneasiness, but did not hurt the building trade very seriously. A firm, but quietly arranged, understanding on the part of plumbers in contracting would have even less effect.

BUILDING PERMITS.

Building permits have been issued in London, Ont., to J. H. Pickeft for a storey and a-half residence on the south side of Bathurst street, between Talbot and Richmond streets, to cost \$1,300; to Richard Adcock for a two-storey residence on Richmond street north; to Jas. Brooks for the erection of a storey and a-half brick building on the east side of Maitland street,

between Horton and Bathurst streets; to David Shaw, for the erection of a storey and a-half brick veneer residence on the south side of King street, between Rectory and Glebe streets.

Building permits have been issued in Toronto to W. K. George for a two-storey and attic brick residence at 76 Glen road to cost \$5,500; to Mr. Harry Webb, for a one-storey brick conservatory, to cost \$3,500; to Richard Donald, for a two-storey summer house on Centre Island, to cost \$1,100; to C. A. Dinnick, for a two-storey and attic brick dwelling on the north-east corner of Lowther and Huron streets, to cost \$10,000; to Jas. Aikenhead, for a pair of semi-detached dwellings at 63 and 65 Glen road, to cost \$3,000; to The Consumers' Gas Co., for a four-storey brick, stone and steel purifying house on the north-east corner of Front and Parliament streets, to cost \$25,000; to The Robert Simpson Co., Limited, for a four-storey addition to their store at Richmond and Yonge streets, to cost \$45,000; to Capt. J. P. Beaty, for a pair of two-storey residence at 1550 to 1552 King street west, to cost \$5,000; to A. A. McKay, for additions to his store at 294 Queen street east, to cost \$1,000.

THE WORLD'S CONSUMPTION OF IRON ORE.

"From the national point of view," says The London Statist, "it is not agreeable to find that while 20 years ago we produced 50 per cent. of the world's pig iron, we now furnish less than 25 per cent. America has taken the lead since 1890, and will easily keep it. The following represents the world's output of pig iron in 1898:

	Tons.
United States.....	11,774,000
Great Britain.....	8,631,151
Germany.....	7,402,717
France.....	2,000,000
Russia.....	1,750,000
Austria-Hungary.....	1,200,000
Belgium.....	980,000
Sweden.....	560,000
Spain.....	300,000
All other countries, say.....	402,132

Total.....35,000,000

On the basis of two tons of ore to one ton of pig, this means a consumption of 70,000,000 tons of iron ore per annum. Is there a supply of ore in sight in the world to permit of an increase in the world's production of pig iron by 25 per cent.? If not, it is difficult to see how the growing demands for iron and steel are to be met. But, of course, the demands may cease to grow."

PLUMBING AND HEATING CONTRACTS.

Purdy, Mansell & Co., Toronto, have contracts for plumbing in a residence on Bloor street west, Toronto, for R. C. Clute; for plumbing, drainage and hot-water heating in a residence in Eglington; for plumbing, gas-fitting and hot water heating in a residence for J. S. Wardell, Bloor street west; for steam-heating in a large warehouse at 76 York street, Toronto, and for hot-water heating in a residence for J. B. Neff, at Port Colborne, Ont.

The Bennett & Wright Co., Limited, Toronto, have contracts for hot-water heating, ventilating and plumbing in a large residence on Jarvis street for W.E. Massey, and for hot-water heating in a residence on Isabella street for Dr. Benagher.

APRIL'S RISE IN PRICES ABROAD.

Prices abroad rose a little in April in Great Britain, according to Mr. Sauerbeck's index number, chiefly on account of the rise in metals and merino wool. The following are the index numbers of the prices of 45 commodities, the average of the 11 years, 1867-1877, being 100:

Average.	Monthly Numbers.
1878-87.....	79
1888-87.....	67
1889.....	72
1893.....	68
1894.....	63
1895.....	62
1896.....	61
1897.....	62
1898.....	64
February, 1895...	60.0
July, 1896.....	59.2
May, 1898.....	66.4
September, 1898..	63.9
December, 1898..	63.8
January, 1899....	65.4
February, 1899....	65.8
March, 1899.....	65.6
April, 1899.....	66.1

Mr. Sauerbeck gives the following interesting comparison of the prices of metals at different rates in the last 22 years:

	—Average—	End 1867-77.	End 1889-98.	End 1898.	End April 1899.
Iron, Scotch, s. per ton..	69	45½	49½	69½	
Iron, hematite, s. per ton..	..	49½	57	63½	
Copper, £ per ton.....	75	47½	57½	77	
Tin, £ per ton.....	105½	76	76	118½	
Lead, £ per ton.....	20½	11½	13½	14½	
Spelter, £ per ton.....	21½	19	24	28½	

The average price of silver advanced slightly in April.

GOING INTO DRY GOODS.

H. Bishop & Son, hardware merchants, Exeter, have acquired the large store adjoining them. They have had the centre wall arched and fitted up for a general dry goods and grocery department, which is in charge of practical men in their lines. The large hardware store is still looked after by the veteran head of the firm, while the financial part of the whole is in the hands of the junior Bishop, an energetic young business man, who has recently returned from a trip to the large centres of the United States.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

JMT VALVES

The best
For all uses

Manufactured
by

For sale
by
all the trade.



*The Morrison
Brass Mfg. Co.*
LIMITED
TORONTO.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.

SEND for specimen copy of Phillips' Monthly Machinery Register containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum, all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, 6s. per annum, price per copy, 6d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon., England. Telegraphic address: "Machinery, Newport, Mon."

The Syracuse Smelting Works

ARE MANUFACTURERS OF

Plumbers' and Tinsmiths' Solder

of highest quality. Highest market prices paid for old Brass and Copper.

SYRACUSE SMELTING WORKS
MONTREAL.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed Nuts, Square and Hexagon

Lockerby & McComb

Manufacturers of

**DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING**

GOOD LUCK FIBRE

2 and 3 PLY READY ROOFING

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street
MONTREAL

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.



FOR FOUR YEARS WE HAVE MADE

The Flat Crimp One-Piece Elbow

for which our rapidly increasing sales are the best evidence of its popularity.

This is why it is a winner: **Long in the Throat**, makes neatest work; **Flat in the Crimp**—easily cleaned, holds no dirt, either inside or out; **Adjustable**, readily fitting all makes of pipe, saving time and labor in putting up, therefore most economical; **specially crated**, insuring delivery in perfect condition. Made of Russia Iron and dark blue steel. Cheap as the cheapest. Be sure you get "DAVIDSON'S," then you get the best.

THE THOS. DAVIDSON MFG., CO., Limited, MONTREAL, P.Q.

Ride Good Tires



**Samson
New York
C. R. Co.**

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

WADE & BUTCHER'S

"SPECIAL" Razors

Are unequalled for quality and finish.

JAMES HUTTON & CO., - MONTREAL

Sole Agents for Canada.

CURRENT MARKET QUOTATIONS

June 2, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—		
56 and 28 lb. ingots, per lb.	0 29	0 30
Straits	0 28½	0 29

Tinplates.

Charcoal Plates—Bright.		
M.L.S., equal to Bradley.	Per box.	
I.C., usual sizes	\$5 50	
I.X.	6 75	
I.X.X.	8 00	
R. & Co.—		
I.C.	5 50	
I.X.	6 75	
I.X.X.	8 00	
Famous—		
I.C.	5 50	
I.X.	6 75	
I.X.X.	8 00	
Raven & Vulture Grades—		
I.C., usual sizes	4 00	
I.X.	4 75	
I.X.X.	5 50	
I.X.X.X.	6 25	
D.C., 12½x17	3 50	
D.X.	4 25	
D.X.X.	6 25	

NOTE.—Other brands might be shaded by 25¢ per box.

Coke Plates—Bright.

Bessemer Steel—		
I.C., usual sizes	3 40	
I.C., special sizes, base.	3 50	
20x28.	7 00	
Charcoal Plates—Terne.		
Dean or J. G. Grade—		
I.C., 20x28, 112 sheets	6 75	
I.X., Terne Tin	8 25	

Charcoal Tin Boiler Plates.

Cookley Grade—		
X.X., 14x56, 50 sheet bxs		
" 14x60	0 05¼	0 06
" 14x65.		
Tinned Sheets.		
72x30 up to 24 gauge	0 06	0 06¾
" 26	0 06¾	0 07
" 28	0 07½	0 07¾

Iron and Steel.

Common Bar, per 100 lbs	1 80	1 85
defined	2 20	
Horse Shoe	1 85	1 90
Hoop steel, 1½ to 3 in. base,		
extras for smaller sizes	2 60	
Swedish	4 00	4 25
Sleigh Shoe Steel " base	2 50	
Tire Steel	2 50	
Machinery	2 65	
Cast Steel, per lb	0 10	0 14
Toe Calk Steel	2 85	
Toe Weight Steel	6 10	
Thos. Firth & Sons' Cast Steel	0 12	0 14
Russian Sheet, per lb	0 10½	0 11
Tank Plates, 1-5 and thicker	2 00	2 25
Boiler Rivets	4 50	5 00

Boiler Tubes.

1½-inch	0 11	
2 "	0 12	
2½ "	0 14	

Steel Boiler Plate.

¾ inch	3 25	
--------	------	--

3-16 inch	3 40	
¾ inch and thicker	3 25	

Black Sheets.

18 gauge	2 40	
20 "	2 50	
22 to 24 "	2 55	
26 "	2 65	
28 "	2 85	

Canada Plates.

All dull, 52 sheets	2 50	
Half polished	2 60	
All bright.	3 10	

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,		
\$3.10; ¾ inch, \$3.10; 1 inch, \$3.40; 1 inch,		
\$4.85; 1½ inch, \$6.50; 2 inch, \$8.00; 2 inch,		
\$11.00. 2½ to 6 inch, discount 60 p.c.		
Galvanized, ¾ inch to 1½ inch, \$5.75; ¾		
inch, \$7.00; 1 inch, \$9.85; 1½ inch, \$14.00;		
1½ inch, \$17.00; 2 inch, \$24.50.		

Galvanized Iron.

16 gauge	3 85	4 00
18 to 24 gauge	4 00	4 25
" 25 "	4 25	4 50
" 28 "	4 50	4 75
Less than case lots, 25¢. per 100 lb. additional.		

Chain.

Proof Coil, 3-16 in., per 100 lbs	6 90	
" ¼ "	4 40	
" 5-16 "	4 40	
" ¾ "	3 80	
" 7-16 "	2 75	
" 1 "	3 55	
" 1½ "	3 45	
" 2 "	5 90	
Trace, per doz. pairs	3 60	
Jack chain, iron, single, per		
doz. yards	0 13	0 50
Jack chain, double, per doz.		
yards	0 15	
Jack chain, brass, single, per		
doz. yards	20	10

Copper.

English B. S., ton lots	0 19	0 19½
Lake Superior		

Bolt or Bar.

Cut lengths, round, ½ to ¾ in.	0 23	0 24
round and square		
1 to 2 inches	0 23	0 24

Sheet.

Untinned, 14 oz., and light, 16		
oz., 14x48 and 14x60	0 23	0 23½
Untinned, 14 oz., and light, 16		
oz., irregular sizes	0 23	0 23½
NOTE.—Extra for tinning, 2 cents per		
pound, and tinning and half planishing 3		
cents per pound.		
Tinned copper sheets	0 26	
Planished	0 32	
Braziers. (In sheets.)		
4x6 ft. 25 to 30 lbs. ea., per lb.	0 25	
" 35 to 45 "	0 24	
" 50-lb. and above, "	0 23	
Boiler and T. K. Pitts.		
Plain Tinned, per lb	0 28	
Spun, per lb.	0 32	

Brass.

Roll and Sheet, 14 to 30 gauge, net list.		
Sheets, hard-rolled, 2x4	0 24	0 2
Tubing, base, per lb.	0 24	0 25

Zinc Spelter

Foreign, per lb	0 07½	0 07¾
Domestic "		

Zinc Sheet.

1 cwt. casks	0 08¼	
Part casks	0 08½	
Imported Pig, per lb	0 04¼	0 04½
Domestic, per lb		
Bar, 1 lb.	05¼	05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05	05½
Sheets, 3 to 6 lbs., per sq. ft.,		
by roll.	0 04¼	0 05
NOTE.—Cut sheets ¾ cent per lb. extra		
Pipe, by the roll, usual weights per yard, lists		
at 7 cents per lb. and 17½ per cent. discount		
NOTE.—Cut lengths, net price, waste pipe		
8-ft. lengths, lists at 7½ cents.		

Shot.

Net list; no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Bar half-and-half	Per lb.	Per lb.
Refined	0 17	0 18¼
Wiping	0 16½	0 17¾
NOTE.—Prices of this graded according to		
quantity. The prices of other qualities or		
solder in the market indicated by private		
brands vary according to composition.		

Antimony.

Cookson's, per lb	0 11	0 11½
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White Lead.

Pure, Assoc. guarantee, ground in oil,		
25 lb. irons	6 12½	6 12½
No. 1 do	5 74½	
No. 2 do	5 37½	
No. 3 do	5 00	
No. 4 do	4 62½	
Robertson's Chemically Pure	6 12½	
Munro's Select Flake White	6 12½	
Elephant and Decorators' Pure	6 12½	
Brandram's B. B. Genuine	8 12½	
" No. 1	7 25	
Jame genuine	7 20	
" No. 1.	6 75	

White Zinc Paint.

Elephant Snow White	0 08	
Pure White Zinc	0 08	
No. 1.	0 06	
No. 2.	0 05	

Dry White Lead.

Pure, casks	0 04¼	
Pure, kegs	0 04¾	
No. 1, casks	0 04¼	
No. 1, kegs	0 04½	

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)		
Pure, per gallon	1 00	
Second qualities, per gallon	0 90	
Barry (in bbls.)	0 70	
The Sherwin-Williams Paints	1 20	
Canada Paint Co's Pure	1 00	1 10
Robertson's Pure	1 00	1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)		
Venetian Red, per lb	0 05	
Chrome Yellow	0 11	
Golden Ochre	0 06	
French	0 05	
Marine Black	0 09	
" Green	0 09	
Chrome	0 08	
French Imperial Green	0 19	

Colors, Dry.

Yellow Ochre (J. C.) bbls. per		
cwt	1 35	1 40
Yellow Ochre (J.F.L.S.), bbls.		
per cwt	2 75	
Yellow Ochre (Royal), per		
cwt	1 10	1 15
Brussels Ochre	2 00	
Venetian Red (best), per cwt.	1 80	1 90
English Oxides, per cwt.	3 00	3 25
American Oxides, per cwt	1 75	1 90

Canadian Oxides, per cwt.	1 75	1 90
Burnt Sienna, pure, per lb.	0 10	
" Umber,	0 10	
do aw	0 09	
Drop Black, pure	0 09	
Chrome Yellows, pure	0 18	
Chrome Greens, pure, per lb.	0 12	
Golden Ochre	0 03¾	
Ultra marine Blue in 28-lb.		
boxes, per lb.	0 08	0 24
Fire Proof Mineral, per 100 lb.	1 00	
Genuine Eng. Litharge, per lb	0 07	
Mortar Color, per 100 lb.	1 25	
James' Gen. Red Lead, 100 lb	0 04¼	
Pure Indian Red, No. 45, lb.	0 08	
Whiting, per 100 lb.	0 50	

Paris Green.

250 lb. casks.	0 13¾	
50 lb. drums	0 14	
1 lb. packages	0 15	
½ lb.	0 16½	
1-lb. tins.	0 15¾	

Sulphate of Copper.

Casks, for spraying, per lb.	0 06	
100-lb. lots, do. per lb.	0 07	

Putty.

Bladders in bbls.	1 80	
Bladders in 100 or 200 lb. kegs or bbs	1 95	
Bulk in bbls., per 100	1 65	
Bulk in less quantities	1 80	
25-lb. tins, 4 in case	2 05	
12½-lb. tins, 8 in case	2 30	
Quotations f.o.b. Toronto—10¢. per 100 lbs.		
extra Hamilton, London, Guelph. For quan-		
ties less than 100-lbs., 2½¢. per lb.		

Varnishes.

(In bbls.)		per gal
Carriage, No. 1		0 90
Extra do.		1 02
Body Varnish		4 00
Furniture Varnish		0 45
Extra do.		0 80
Demar Varnish		1 40
Hard Oil Finish		1 10
Orange Shellac Varnish		1 90
White Shellac		2 00
Rubbing Varnish		0 70
Brown Japan		0 70
Elastic Oak		0 90

Linseed Oil.

Raw, per gal. net	0 52	
Boiled, per gal. net	0 55	
Outside points 1¢. more than above		figures

Turpentine.

1 to 4 barrels, net	0 63	
Outside points 1¢. more		

Castor Oil.

In cases, per lb	0 09	
Small lots.	0 10	

Cod Oil, Etc.

Cod Oil, per gal.	0 50	
Pure Olive	1 55	
Nestfoot	90	

Glue.

(In bbls.)		
Common	0 08½	0 09
French Medal	0 12	0 12½
Cabinet, sheet	0 11	0 12
White, extra	0 16	0 18
Gelatine	0 22	0 30
Strip	0 16	0 18
Coopers	0 19	0 20
Al clear	0 09	

HARDWARE.

Ammunition.

Cartridges.		
R. B. Caps, Dom., 50 and 5¢. per cent.		
Rim Fire Pistol, dia. 45 p. c. Amer.		
Rim Fire Cartridges, Dom., 50 and 5 p. c.		
Rim Fire, Military, net list, Amer.		
Central Fire Pistol and Rifle, 18 p. c. Amer.		

SHAFTING HANGERS PULLEYS

We manufacture and carry in stock ready
for prompt shipment, a full line of Shafting,
Hangers and Pulleys

Especially suited for Creamery and Dairy Work.

Up-to-date goods. Correct prices.
Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office: 74 York St., TORONTO, ONT.

Central Fire Cartridges, pistol sizes, Dom.
31 per cent.
Central Fire Cartridges, Sporting and Military,
Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer.
net list. B.B. Caps. discount 45 per cent.
Amer.
Loaded and empty Shells, "Trap" and
"Domino" grades, 25 per cent. Rival
and Nitro, 17 p.c.
Brass shot Shells, 55 and 10 per cent.
Primers, Dom., 80 per cent.
Wads.

Best thick white felt wadding, in 3/4-lb
bags, 1 00
Best thick brown or grey felt wads, in
1/2-b. bags 0 70
Best thick white card wads, in boxes
of 500 each, 12 and smaller gauges 0 99
Best thick white card wads, in boxes
of 500 each, 10 gauge 0 35
Best thick white card wads, in boxes
of 500 each, 8 gauge 0 55
Thin card wads, in boxes of 1,000
each, 12 and smaller gauges 0 20
Thin card wads, in boxes of 1,000
each, 10 gauge 0 25
Thin card wads, in boxes of 1,000
each, 8 gauge 0 60
Chemically prepared blank edge grey
cloth wads, in boxes of 250 each—
11 and 1 smaller gauge 0 60
9 and 10 gauges 0 70
7 and 8 gauges 0 90
5 and 6 gauges 1 10
Superior chemically prepared pink
edge, best white cloth wads, in
boxes of 250 each—
11 and 1 smaller gauge 1 15
9 and 10 gauges 1 40
7 and 8 gauges 1 65
5 and 6 gauges 1 90

Adzes.
Discount, 33 1/2 per cent.

Anvils.
Per lb. 0 10 0 12 1/2
Anvil and Vice combined
each 4 50
Wilkinson & Co.'s Anvils, lb. 0 9 0 09 1/2
Wilkinson & Co.'s Vices, lb. 0 9 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised
list.
Hollow, Stearn's, per dozen, 13 00 20 00
Adjustable, Stearn's, each, 4 50 6 50
Post-hole, Vaughan's, each, 60 90

AXES.
Splitting Axes, 5 25 5 50
Chopping Axes—
Single List, per doz. 3 00 12 00
Double List, " 11 00 18 00
Bercet Axes, 40 and 15 p.c.
Broad Axes, 3 1/2 per cent.

Bath Tubs.
Zinc, 39 1/2 4 00
Copper, 40 cent 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised
list. Boxed extra.

Anti-Friction Metal.
"Tandem" A. per lb. 0 23
" " B. 0 19
" " C. 0 11 1/2
" " D. 0 21
" " E. 0 15
" " F. 0 10
" " G. 0 08 1/2
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal, 0 15
Mytic Metal, 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.
Door.
Gones, Sargent's, 5 50 8 00
" Peterboro, discount 50 per cent.
" Cow.
American make, discount 6 1/2 per cent.
Canadian, discount 5 and 50 per cent.
Farm.
American, each, 1 15 3 00

Hou-e.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders', per doz. 7 50 10 00
Blacksmiths', discount 60 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Rits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford, Common, 70 to 70 and 10 per cent.
Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Gilmour's, 47 1/2 to 51 per cent.
Expansive.
Clark's, 4 per cent.
Gimlet.
Clark's, per doz. 0 65 0 90
Diamond, Shell, per doz. 1 00 1 50
Nail and Spike, per gross, 2 25 5 20

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 00

Blind and Bed Staples.
All sizes, per lb. 0 07 1/2 0 12

Bolts and Nuts.
Norway Bolts, full square, 70
Common Carriage Bolts, 5-16 & under, 60
" " " " 3/8 and larger, 55
" " " " full square, 70
Machine Bolts, all sizes, 60
Coach Screws, 75
Sleigh Shoe Bolts, 75
Blank Bolts, 60
Bo't Ends, 55
Nuts, square, 55
Nuts, hexagon, 50
Tapping Nuts, 70
Tire Bolts, 65 and 10
Stove Bolts, 65 and 10

Boot Calks.
Small and medium, per M. 4 50
Small heel, per M. 4 25

Broilers.
Light, dis., 65 to 67 1/2 per cent.
Reversible, dis., 65 to 67 1/2 per cent.
Vegetable, per doz., dis 37 1/2 per cent.
Henis, No. 8, 6 00
Henis, No. 9, 7 00
Queen City, 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 00 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll, 0 28
Tarrad lining, per roll, 0 35
Tarrad roofing, per 100 lb., 1 40
Coal Tar, per barrel, 3 75
Pitch, per 100-lb., 0 60
Carpet felt, per 100 lb., 2 25

Bull Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in.,
70 per cent.

Butts.
Brass.
Wrought Brass, dis., 10 p.c. revised list.
Cast Iron.
Loose Pin, dis., 6 to 6 1/2 and 10 per cent.
Wrought Steel.
Fast Joint, dis., 70 and 10 per cent.
Loose Pin, dis., 7 1/2 and 10 per cent.
Berlin Thread, dis., 7 1/2, 70 and 5 per cent.
Gen. Brouzed, per pair 0 40 0 65

Cards.
Horse, per doz. 0 60 1 00

Carpet Sweepers.
B'swell, per doz. 22 50
World, " 21 75
Daisy, " 24 00
Star, " 18 01
Crown Jewel, per doz. 29 00
Grand Rapids, " 21 00 33 00

Carpet Stretchers.

American, per doz. 1 00 1 50
Bullard's, per doz. 6 50

Castors.

Bed, new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.

Nos. 31 and 32, per gross, 8 50 9 50

Cement.

Canadian Portland, 2 65 2 90
English, " 3 00
Belgian, " 2 70
Canadian hydraulic, 1 00 1 10

Figures are for barrel lots.

Chalk.

Carpenters, Colored, per
gross 0 45 0 75
White lump, per cwt. 0 60 0 65
Red 0 05 0 06
Crayon, per gross, 0 14 0 18

Chisels.

Socket, Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warnock's, dis. 40 and 10 per cent.

Churns.

Revolving Churns, metal frames—No. 0, \$3—
No. 1, \$3.25—No. 2, \$3.40—No. 3, \$3.75—
No. 4, \$4.50—No. 5, \$4.90 each. Ditto,
wood frames—15c. each less than above.
Terms 4 months or 3 p.c. off 30 days, f.o.b.

Clips.

Axle dis. 65 per cent.

Closets.

Washout, plain, 3 75
" embossed, 3 00
Connections, 1 10

Compasses, Dividers, Etc.

American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.

Canadian, dis. 20 per cent. from factory.

Dies.

Hart Mfg. Co. (pipe dies), (Amer. list), dis.
40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis.
per cent.

Door Springs.

Torrey's Rod, per doz. (15 p.c.) 2 00
Coil, per doz. 0 88 1 60
English, per doz. 2 00 4 60

Draw Knives.

Broad's dis. 75 per cent.

Drills.

Hand and Breast.
Miller's Falls, per doz. net list.

DRILL BITS.

Morse, dis., 37 1/2 to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.

Screw pipe, 0 85 1 70

FILES.

Globe File Mfg. Co.'s dis., files, 60 and 10 to
70 per cent.
Black Diamond, 50 and 10 to 60 per cent.
Kearney & Foote, 60 and 10 per cent. to 60,
10 to 10.
Nicholson File Co., 50 and 10 to 60 per cent.
Jowitt's, English list, 20 to 27 1/2 per cent.
Mechanics' Star & File Mfg. Co. Discount
60 and 10 to 70 per cent.

FORKS.

Hay, manure, etc., dis., 60 and 10 to 60
and 5 p.c. revised list.

FREZERS.

Ice Cream.
White Mountain, 1 to 25 qt., 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.

Acme, dis. 65 to 67 1/2 per cent.

FRUIT PRESSES.

Henis', per doz. 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.

Marking, Mortise, Etc.
Stanley's, dis. 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33, each, 1 65 2 40

GLASS.

Window.
Box Price.

Size	Per	Per	Per	Per
United	50 ft.	100 ft.	50 ft.	100 ft.
Inches.				
Under 26.....	2 00	3 75	3 20	6 00
26 to 40.....	2 15	4 45	3 40	6 65
41 to 50.....	4 50	.....	7 00	.....
51 to 60.....	4 75	.....	8 15	.....
61 to 70.....	5 10	.....	9 10	.....
71 to 80.....	5 50	.....	10 00	.....
81 to 85.....	6 10	.....	11 50	.....
86 to 90.....	7 25	.....	13 50	.....
91 to 95.....	.....	.....	15 00	.....
96 to 100.....	.....	.....	18 00	.....
101 to 105.....	.....	.....	20 50	.....
106 to 110.....	.....	.....	23 50	.....

HALTERS.

Rope, 3/4 per gross, 8 25 8 55
" 1/2 " 9 25 6 50
" 3/8 " 11 00 11 20

Leather, 1 in., per doz. 3 87 1/2 4 00
" 1 1/4 in., 5 15 5 20
Web, — per doz. 1 87 2 45

HAMMERS.

Nail
Maydole's, dis 5 to 10 per cent. Can. dis.
25 to 27 1/2 per cent.

Tack.

Magnetic, per doz. 1 10 1 20

Sledge.

Canadian, per lb. 0 07 1/2 0 08 1/2

Ball Pean.

English and Can., per lb. 0 22 0 25

HANDLES.

Axe, per doz., net 1 50 2 00
Store door, per doz. 1 00 1 50
Chest, per doz. pair, 0 40 2 50

Fork

C. & B., dis. 45 per cent. rev. list.

Hoe.

C. & B., dis. 45 per cent. rev. list.

Saw.

American, per doz. 1 00 1 25
American, per gross, 3 15 3 70
Canadian, 45 per cent.

Hammer and Hatchet.

Canadian, per pair, 0 13 1/2 0 20

HANGERS.

Door, 4 and 5 inch, per pair, 0 40 0 50
Lane's, 62 1/2 per cent.

HARVEST TOOLS.

Discount, 60, 10, and 5 per cent.

HATCHETS.

Canadian, dis. 40 to 42 1/2 per cent.

HINGES.

Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb. 0 05
" " 5-in., " 0 01 1/2
" " 6-in., " 0 04 1/2
" " 8-in., " 0 01 1/2
" " 10-in., " 0 04

Screw hook and hinge
3 to 12 in., per 10 lbs. 3 75
14 in. up, per 100 lbs. 3 00

Per gro. pair

Spring, 8 50

HOES.

Garden, Mortar, etc., dis. 60, 10 and 5 p.c.
Planter, per doz. 4 00 4 50

HOOKS.		NETTING.		SASH WEIGHTS.		Copper tacks.	
Cast Iron.		Poultry, 50 and 5 per cent. for McMullen's.		Sectional, per 100 lbs.		Copper nails.	
Bird Cage, per doz.	0 50 1 10	# OIL.		Solid,		Trunk nails, black and tinned.	
Clothes Line, per doz.	0 27 0 63	Canada refined (Toronto).....		SAWS.		Clout nails, blue and tinned.	
Harness, per doz.	0 72 0 88	Sarnia Water White.....		Hand, Disston's, dis. 12½ to 15 p.c.		Chair nails.....	
Hat and Coat, per gross.	1 00 3 00	" Prime Water.....		S. & D., 40 per cent.		Cigar box nails.....	
Chandelier, per doz.	0 50 1 00	American w. w.....		Croscut, Disston's, per ft.		Patent brads.....	
Wrought Iron.		Pratt's Astral.....		S. & D., dis. 35 p.c. on Nos. 2 and 3.		Fine finishing.....	
Wrought Hooks and Staples, Can., dis. 47½ per cent.		OILERS.		Hack, complete, each.		Picture frame points.....	
Wire.		McClary's Model galvan. oil		" frame only.....		Lining tacks, in papers.....	
Hat and Coat, discount 60 per cent.		can, with pump, 5 gal.,		SAW SETS.		" in bulk.....	
Belt, per 1,000.....	0 69 0 70	per doz.....		" Lincoln," per doz.....		" solid heads, in bulk.....	
Screw, bright, dis. 65 and 10 per cent.		Zinc and tin, dis. 50, 50 and 10.		SCALES		Tufting buttons, 22 line, in dozens only	
HORSE NAILS.		Copper, per doz.....		Gursey Scales, 50 p.c.		Tin capped trunk nails.....	
"C" brand 50 p.c. dis.		Brass, ".....		B. & M. Scales, 50 p.c.		Zinc glazier's points.....	
"M" brand 50 p.c.		Malleable, dis. 25 per cent.		Champion 60 per cent.		Double pointed tacks.....	
Acadian, 50 and 20 p.c., countersunk head.		PAIIS.		Fairbanks Standard, 45 p.c.		TAPE LINES.	
HORSESHOES.		Galvanized, straight pattern		" Dominion, 60 p.c.		English, ass skin, per doz.....	
Iron Shoes.		No. 12.....		Richelleu, 60 p.c.		English, Patent Leather.....	
Light, medium, and heavy.		Galvanized, straight pattern		Chatillon Spring Balances, 25 p.c.		Chesterman's each.....	
Snow shoes.....		No. 14.....		SCREENS.		steel, each.....	
Steel Shoes.....		Galvanized, straight pattern		Door patent per doz.....		THERMOMETERS	
Light.....		No. 16.....		Window, per doz.....		Tin case and dairy, dis. 75 to 75 and 10 p.c.	
Featherweight (all sizes).....		Flaring pattern, No. 11.....		Sargent's, per doz.....		TINWARE.	
ICE PICKS.		" " No. 12.....		SCREWS		Stamped, dis., Assn. list, 80 per cent.	
Star, per doz.....		" " No. 13.....		Wood, F. H., iron, and steel, 82½ and 5 p.c.		Japaned, prices on application.	
KETTLES.		PICKS.		Wood R. H., " dis. 75 and 5 p.c.		Pieced, prices on application.	
Brass spun, 7½ p.c. dis. off new list.		Per doz.....		" F. H., brass, dis. 75 and 5 p.c.		TRANSMO LIFTERS.	
Copper, per 100 p.c.		PICTURE NAILS.		Wood, R. H., " dis. 67½ and 5 p.c.		Payson's per doz.....	
American, 60 and 10 to 6 and 5 p.c.		Porcelain head, per gross.....		" F. H., bronze, dis. 67½ and 5 p.c.		TRAPS. (Steel.)	
KEYS.		Brass head.....		" K. H., " 62½ and 5 p.c.		Game, Newhouse, dis. 40 p.c.	
Lock, Can., dis., 50 p.c.		PLANES.		Drive Screws, 82½ and 5 per cent.		Game, H. & N., P. S. & W., 65 p.c.	
Cabinet, trunk, and padlock,		Wood, bench, Canadian dis. 55 per cent.		Bench, wood, per doz.....		Game, steel, 72½, 75 p.c.	
Am. per gross.....		American dis. 55.		iron, ".....		TROWELS.	
KNOBS.		Wood, fancy Canadian or American, 37½		SCYTHES.		Disston's, discount 10 per cent.	
Door, japaned and N. P., per		to 40 per cent.		Discount, per doz. net.....		German, per doz.....	
doz.....		Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		SCYTHE SNATHS.		Brade's ".....	
Bronze, Berlin, per doz.....		Miscellaneous, dis. 25 to 27½ per cent.		Canadian, d.s. 50 p.c.		S. & D., discount 35 per cent.	
Bronze Genuine, per doz.....		Bailey's Victor, 25 per cent.		SEARS		Bag, Russian, per lb.....	
Shutter, porcelain, F. & L.		PLANE IRONS.		Seymour's, dis. 50 and 10 p.c.		Wrapping, cottoned, per pack.....	
screw, per gross.....		English, per doz.....		Heinisch, dis. 50 and 10 p.c.		Wrapping, mottled, per lb.....	
KNIVES.		PLIERS AND NIPPERS.		Claus, full nickel, 50 and 10 p.c.		Mattress, per lb.....	
Clau's bread, cake, and paring knives, \$7 00		Button's Genuine, per doz pairs, dis. 37½		" japaned handles, 67½ p.c. off.		Staging, ".....	
doz. sets net, to 10 per cent.		40 p.c.		Seymour or Heinisch tailor shears. 15 p.c.		Broom, ".....	
Christie, bread, cake, and paring knives, \$7 00		Button's Imitation, per doz.....		SHOVELS AND SPADES.		Hand, per doz.....	
doz. sets, with 10 p.c. off.		German, per doz.....		Canadian, dis. 40 and 5 per cent.		Bench, parallel, each.....	
Hay knives, spear point, L. or T handle, 60		PULLEYS.		SNAPS.		Coach, each.....	
10 and 5 per cent.		Hothouse, per doz.....		Harness, German, dis. 35 to 37½ p.c.		Peter Wright's, per lb.....	
Lightning, per doz.....		Axle.....		Acme.....		Pipe, each.....	
Health's, \$7.75 net.		Screw.....		Lock, Andrews'.....		Saw, per doz.....	
LANTERNS.		Awning.....		SOLDERING IRONS.		WIRE.	
Cold Blast, per doz.....		Canadian cistern.....		2 lb., per lb.....		Brass and copper wire, 10 per cent. advance	
LEMON SQUEEZERS.		Canadian pitcher spout.....		3 lb., ".....		on the list.	
Porcelain lined.....		PUNCHES.		WROUGHT SPIKES.		Smooth Steel Wire, base, \$2.50 f.o.b. factory	
Galvanize ".....		Saddlers, per doz.....		Diaco, 35 to 40 per cent.		points. List of extras: Nos. 2 to 5, advance	
King, wood.....		Conductors, ".....		SQUARES.		7c. per 100 lb.—Nos. 6 to 9 base—	
King, glass.....		Tinners' solid, per set.....		Iron, per doz.....		No. 10, advance 7c.—Nos. 11, 14c.—No. 12,	
All glass.....		" hollow, per inch.....		Steel, dis. 70 per cent., revised list.		20c.—No. 13, 35c.—No. 14 47c.—No. 15,	
LINES.		RAKES.		Try and bevel, dis. 50 to 52½ p.c.		60c.—No. 16, 75c. Extras net per 100 lb.:—	
Fi-h, per gross.....		Wood, 25 per cent.		Galvanized.....		Coppered wire, 60c.—tinned wire, \$2—	
Chalk ".....		RASPS AND HORSE RASPS.		Bright.....		oiling, 10c.—special hay-tailing wire, 30c.—	
LOCKS.		New Nicholson horse rasp, discount 60 p.c.		STAPLES.		spring wire, \$—test steel wire, 75c.—	
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Russell & Erwin, per doz.....		Heller's Horse rasps, 50 to 50 and 5 p.c.		STONE.		bundles net, 1½c.—in 25-lb. bundles net,	
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Padlock.		Roker's.....		Hindustan.....		Fine Steel Wire, discount 25 per cent. factory	
English and Am., per doz.....		Wade & Butcher's.....		" slip.....		List of extras: In 100-lb. lots: No. 17,	
Scandinavian.....		Theile & Quack's.....		Labrador.....		17, 35c.—No. 18, 55c.—No. 19, 36c.—No. 20,	
Eagle, dis. 15 to 17½ p.c.		RIVETS AND BURRS.		" Axe.....		\$6.65—No. 21, \$7—No. 22, \$7.30—No. 23,	
MACHINE SCREWS.		Carriage, Section, Wagon Box Rivets, etc.		Turkey.....		\$7.61—No. 24, \$8—No. 25, \$9—No. 26,	
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Flat head, discount 25 p.c.		Carriage, Section, Wagon Box Rivets, et		Water-of-Ayr.....		\$12—No. 30, \$13—No. 31, \$14—No. 32, \$15	
Round Head, discount 20 p.c.		(Norway Iron), 55 p.c.		Scythe, per gross.....		No. 33, \$16—No. 34 \$17. Extras net-	
MALLET.		Black M Rivets (Steel), 50 p.c.		Grind, per ton.....		tinned wire. Nos. 17-25, \$2—Nos. 26-31,	
Tinmiths', per doz.....		Black and Tinned Rivets, 60 p.c.		Stove Polish.		\$4—Nos. 32-34, \$—Coppered, 5c.—oiling,	
Carpenter's, hickory, per doz. 1 25 1 50		Extras on Iron Rivets in 1-lb. cartons, ½c.		No. 4-3 dozen in case, net cash.....		ing, 1½c.—in 25-lb. bundles, 15c.—in 50-	
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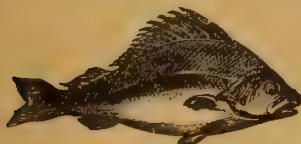
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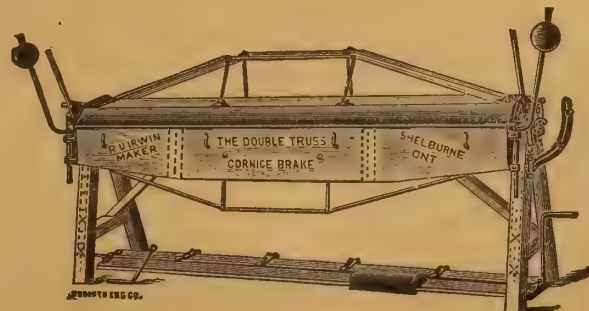
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NO. 23



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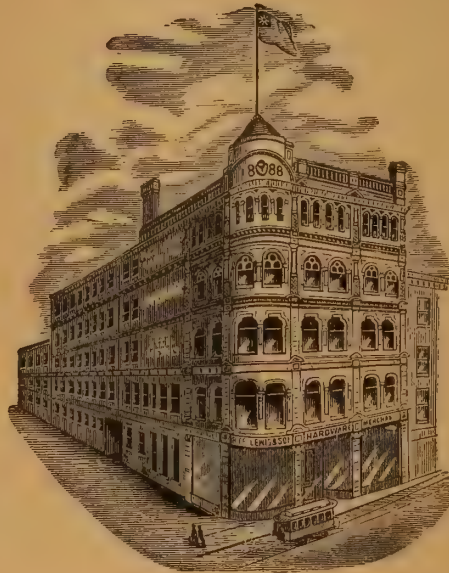
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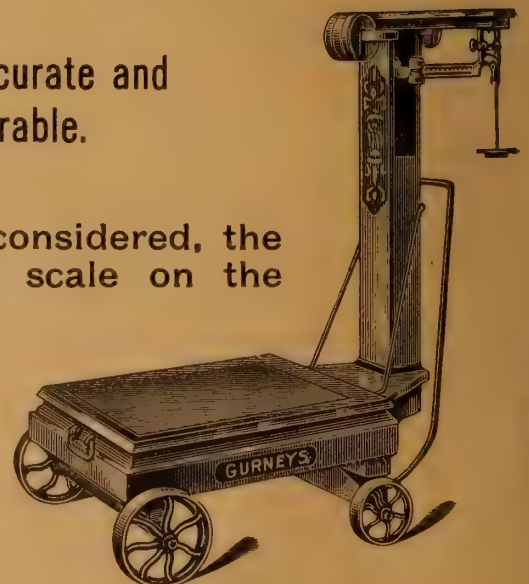
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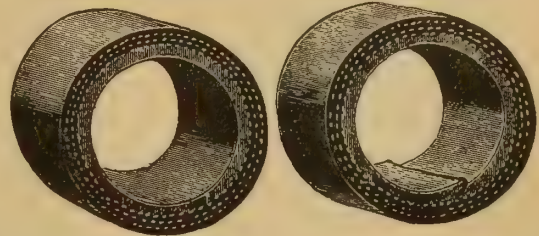
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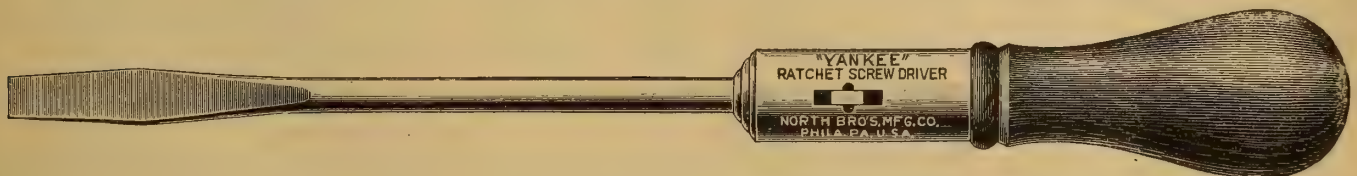
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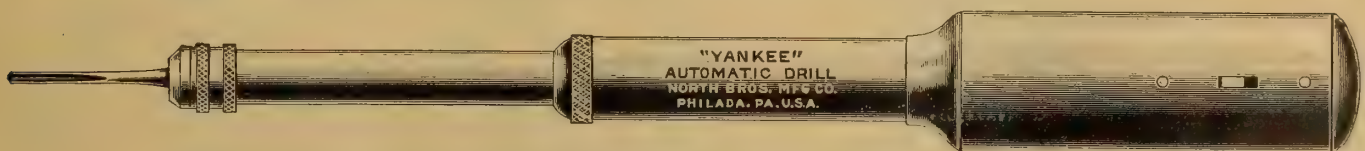
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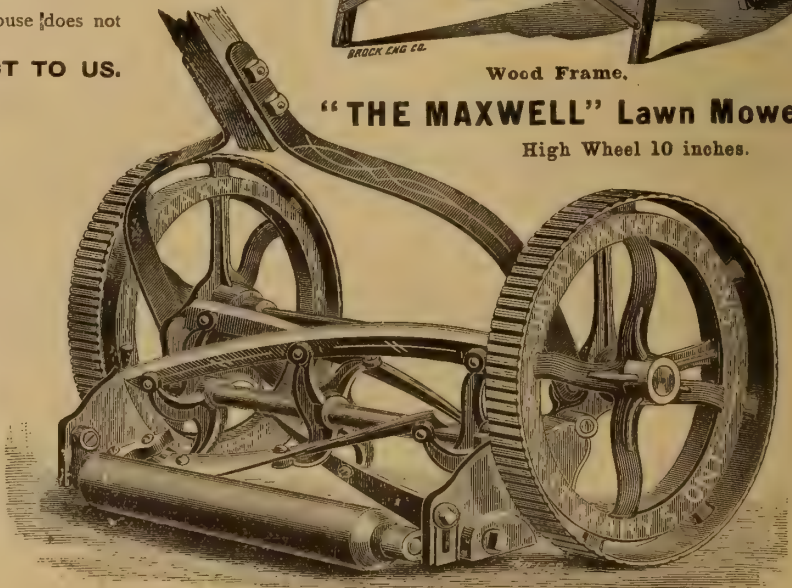
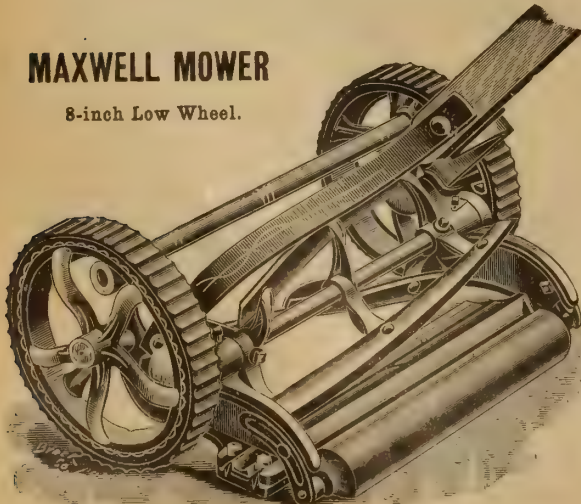
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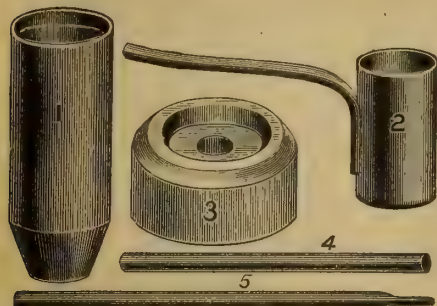
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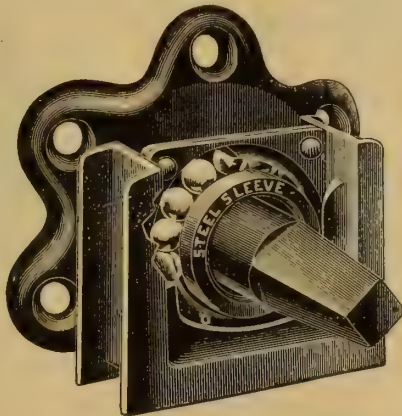
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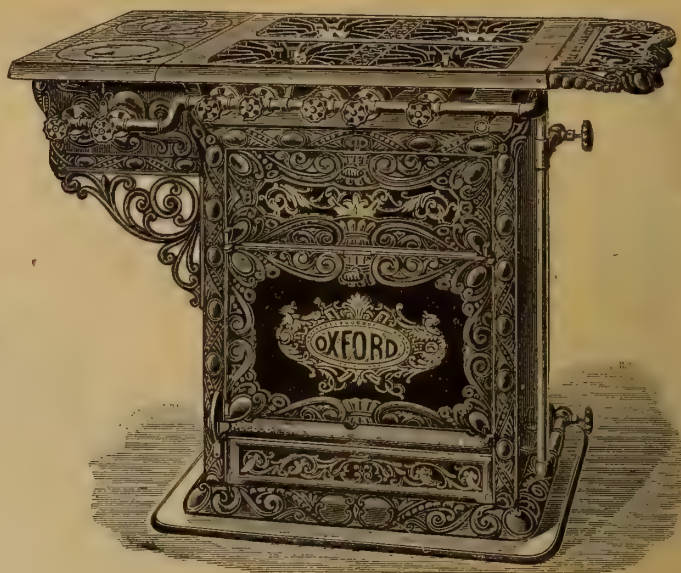
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These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

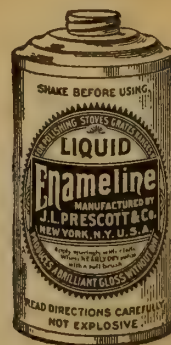
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Enameline

The Modern **STOVE POLISH**



PASTE.



LIQUID.



CAKE.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.
"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d.
and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality
for general and
special purposes.

EMERY GRINDING MACHINERY

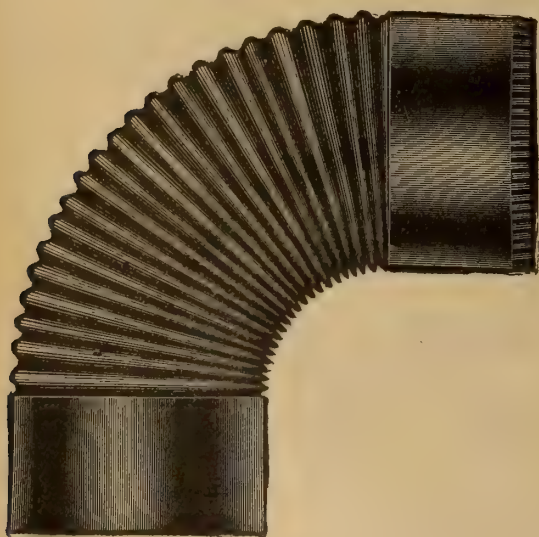


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LONDON, E.C.

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S STANDARD

One-Piece Elbows.

Made of Extra Heavy Smooth Steel ; in Two Qualities.

THIS ELBOW IS POPULAR, BECAUSE

It is the Strongest Elbow Made.
It is attractive in Appearance.
It will not get damaged in Shipping,
It has a Coating which prevents Rust.
It is riveted ready for use.
It is as Cheap as the Ordinary Pieced Elbow,

The improved process of manufacture produces a short turn, therefore, less material is used, and consequently less weight per dozen, which results in a great reduction in freight, and a reduced cost to the buyer.

MADE IN STEEL, IN 5, 6, 7 AND 8-INCH.
MADE IN GALVANIZED IRON, IN 7 AND 8-INCH.
MADE IN TIN, IN 7 AND 8-INCH.

Kemp Manufacturing Co., ...TORONTO,
CANADA.

HARDWARE AND METAL

Vol. XI.

MONTREAL AND TORONTO, JUNE 10, 1899.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

PRODUCTION OF NAILS IN THE UNITED STATES.

THE production of both cut and wire nails in the United States during 1898 was smaller than in 1897. In the latter the decrease was over 17 per cent. and in the former over 25 per cent.

The actual figures were 1,572,221 kegs of cut nails and 7,418,475 kegs of wire nails, making a total output of 8,990,696 kegs for the year.

In 1897, 2,106,799 kegs of cut nails and 8,997,245 kegs of wire nails were made, a total of 11,104,044 kegs. It will be noticed that the output of wire nails alone in 1897 was slightly in excess of the aggregate of both cut and wire nails in 1898.

The output of cut nails in 1898 was the smallest for which any record is to hand.

In 1896 the quantity was 1,615,870 kegs, and in 1895 it was 2,129,894 kegs. In 1895 the production of wire nails was 5,841,403 kegs, and in 1896 it was 4,719,860 kegs. The aggregate production of both cut and wire nails in 1895 was 7,971,297 kegs, and in 1896 6,335,730 kegs.

The output of both wire and cut nails decreased last year in practically every State in the Union.

PIG IRON AND THE SUPPLY.

A striking feature of the pig iron situation is the fact that neither the United States nor Great Britain have pig iron to spare, the demands of their home market being quite able to take care of the furnace output of the respective countries; in fact, the demand at the moment exceeds the supply, particularly in the United States, where some of the furnaces have sold their output for a year ahead.

The blast furnaces in Canada are also rushed with orders. In fact, the world over, the iron industry is in a most satisfactory condition.

With the conditions as they are, there can be no prospect of, at least, an immediate depreciation in the value of pig iron, high as that value is compared with a year ago.

Notwithstanding the sharp advances in pig iron in the United States, and the belief in Great Britain that there is, in consequence, an opening in the former market for the product of the latter, yet, the fact that in Great Britain prices are abnormally high precludes it. On May 31, as reported in last week's issue, Scotch warrants reached the highest point touched in the recent advance.

AN ACCOUNT-KEEPING MORAL.

A retailer in Toronto was a short time ago asked by a customer for his bill. The bill was hurriedly made out. In handing it to the customer the retailer stated that as all the items had not been entered from the day book into the ledger something might have been omitted from the bill. Should that be the case, however, such omitted amount could be paid afterwards. The customer assented and paid the account as set forth in the bill.

Sure enough, it was subsequently discovered that an item had been omitted, but when this was pointed out to the customer the latter refused to recognize it, and not only that but has now no further dealings with that retailer.

The retailer has thus lost a customer as well as a small account.

The moral is so obvious that it need not be specified.

CAUSES OF THE FAILURE.

The failure of Neilson Bros., the largest steel dealers in Scotland, whose financial difficulties were announced last week, came, in view of the healthy condition of the iron industry in Great Britain, as a surprise to people on this side of the Atlantic.

When, however, the circumstances which led to the failure are known, there is not so much reason for surprise.

In the first place, the firm is reputed to have lost £250,000 last year in consequence of the advance in shipbuilding material, for which they had taken large contracts for future delivery, and now the advance in United States steel, in which they had been dealing extensively, has caused further loss.

THE PIG IRON EXPORT TRADE IN CANADA.

AN inquiry for pig iron was received last week from a consumer in Pennsylvania, by the Hamilton Blast Furnace Co., Limited, Hamilton, Ont.

The cause of this inquiry was the extraordinary conditions obtaining in the Pennsylvania iron districts, namely, high prices and the difficulty of securing delivery from the furnaces there.

But, while Canada may never hope to do an export trade in pig iron with Pennsylvania, at least under normal conditions, yet, if the iron industry of this country is ever to be developed at all, in proportion to its possibilities, foreign customers will have to be found somewhere.

Canada already exports a little pig iron, but, while it is only a little, it is swelling. The following table giving the exports of pig iron, the produce of Canada, from 1893 to 1898 shows that :

	Quantity in tons.	Value.
1893	12	\$ 330
1895	259	6,202
1896	1,940	45,363
1897	2,627	65,555
1898	2,403	61,029

In 1894 no pig iron was exported. At any rate, no evidence of it is to be found in the trade returns. The increase during the last three years is most gratifying, the exports in 1898 being over 827 per cent. larger in quantity than in 1895.

The United States, Great Britain, and Newfoundland are the steadiest consumers of Canadian pig iron. In fact, only once during the years embraced in the above table have any other than these three countries appeared in the records. It was in 1897 when the exception was experienced, and, in that year, in addition to these, there were Austria, with \$19,250 worth; Belgium, with \$450 worth; France, with \$1,425 worth, and Germany, with \$640 worth. The absence of these countries from the returns of 1898 explains the decrease in the total of that year compared with its predecessor. The exports of Canadian iron to Great Britain, Newfoundland, and the United States, from 1893 to 1898, were as follows :

	1898.	1897.	1896.	1895.	1893
Great Britain....	\$14,290	\$ 3,460	\$ 650	\$ 66	\$300
Newfoundland....	1,250	300	3,600	....	30
United States....	45,489	40,030	41,113	6,136	.....

It will be noticed that during the years covered by this table there has been a

steady gain in the exports to Great Britain and to the United States.

The exports are chiefly from the charcoal furnaces in the Province of Quebec. Until 1898, in fact, the blast furnaces in that Province and in Nova Scotia alone shared in the exports, but in that year Ontario took a place as an exporter with \$1,510 worth. Out of the total quantity exported last year Quebec contributed \$56,001, and in 1897 \$65,255.

Canada has now two charcoal iron furnaces in operation, namely, the Radnor (Quebec) and the Deseronto (Ontario). Last year there was only the former. Soon there will be three, the third now being in course of construction at Midland, Ont. With these three in operation we may with certainty look for a material increase in the exportation of charcoal pig iron, while, in view of the new and extensive plant which is being erected in Cape Breton for the special purpose of catering to the foreign trade, to say nothing in regard to what the Hamilton blast furnace may do, we may safely look for a marked development in the exportation of ordinary pig iron.

Last year there were in operation in Canada three blast furnaces whose aggregate output was 76,000 tons, the Hamilton furnace contributing 48,253 tons, the New Glasgow, N.S., furnace 21,627 tons, and the Radnor furnace 6,040 tons. There are now four blast furnace plants operating, and before long there will be two more, namely, one at Midland, Ont., and one at Cape Breton, to say nothing of one or two others that are contemplated.

The development of the iron industry in Canada appears to have at last begun in earnest.

ENGLISH GALVANIZED WIRE.

Ever since the sharp advance in the price of galvanized wire in the United States hope has been entertained in Canada that the article might be purchased in either Great Britain or Germany at lower figures than those ruling across the line.

During the last few days quotations have been received in this country from Great Britain, which are, in some particulars, about on a par with those ruling on similar gauges the product of the United States

factories, even before last week's advance was ordered by the American Steel and Wire Company.

It will be interesting to watch the influence of this new factor on the market.

NO GLASS COMING YET.

Importers of glass are becoming somewhat anxious about their shipments. Houses which expected that their first orders would start about the last of May state that as yet not a single box has left Belgium for them, and no promise is given by Belgian manufacturers or jobbers as to when they will commence to send the goods forward.

This means that no glass can be expected by these houses before the middle of July, whereas, last year, May brought some and June nearly all the glass that was ordered here.

Local glass houses are in no condition to stand this delay. In fact, stocks are so broken that one house states that there never was before such difficulty in meeting the demand.

RANGE BOILERS AGAIN ADVANCE.

Still another advance of one dollar in the price of range boilers is to be noted. This is the third advance in less than two months, and makes the total gain \$3 per boiler.

Thirty-gallon boilers are now quoted at \$9 each; 35-gallon at \$10, and 40-gallon at \$11. At these figures range boilers are 50 per cent. dearer than they were the third week in April last.

IRON PIPE HIGHER IN TORONTO.

Jobbers of black and galvanized pipe in Toronto have again marked up their prices. The former is quoted about 5 to 12 per cent. and the latter 5 to 6 per cent. higher than a week ago.

Quotations are now as follows per 100 feet: Black pipe— $\frac{1}{4}$ to $\frac{3}{8}$ -inch, \$3.10; $\frac{1}{2}$ -inch, \$3.25; $\frac{3}{4}$ -inch, \$3.80; 1-inch, \$5.25; 1 $\frac{1}{4}$ -inch, \$7; 1 $\frac{1}{2}$ -inch, \$8.75; 2-inch, \$12; 2 $\frac{1}{4}$ to 6-inch, 60 per cent. Galvanized pipe— $\frac{3}{8}$ to $\frac{1}{2}$ -inch, \$6; $\frac{3}{4}$ -inch, \$7.50; 1-inch, \$10.50; 1 $\frac{1}{4}$ -inch, \$14.75; 1 $\frac{1}{2}$ -inch, \$18.50; 2-inch, \$26.

Black pipe is now about 50c. to \$2 per 100 feet dearer than a couple of months ago, while galvanized has appreciated about 50c. to \$6.25 per 100 feet, according to size.

A THREATENED DANGER TO CANADA.

THE sentiments expressed in the resolution of the Council of the Montreal Board of Trade to the effect that the absence of an insolvency law will have an unfortunate effect upon the commercial future of this country are well-founded.

A nation can no more live within itself and be successful than can an individual. The fact that one nation has a surplus in this and that article, which another is deficient in, proves that. In other words, nations must trade with each other if they would be anything.

And if they must trade with each other it is obvious they should have commercial laws whereby this international trade may be carried on with safety. Where such laws do not exist business is bound to be handicapped.

This is exactly the position of affairs in Canada to-day, particularly as far as British trade with this country is concerned.

Under our Customs tariff we give British goods a preference of 25 per cent. of the duty; but the persistent neglect of the Government to pass an insolvency law is a barrier to that expansion of trade which we profess, through the tariff, to be desirous of encouraging.

This condition of affairs reminds one of the game of running the gauntlet. Canada professes a desire to increase her purchases of British goods, but, in order to get that trade, we ask the British exporter to run the gauntlet of inefficient commercial laws and assume the risk of getting a few hard knocks. A good many are running this gauntlet, but a great many are refusing to do so.

The London, England, representative of this paper, and those who are brought into contact with the British exporting class, repeatedly come across manufacturers and merchants who refuse to do business with Canada as long as an insolvency law is wanting.

It is quite true that some British exporters have lost money in Canada, which might have been prevented had ordinary precaution been exercised. But precaution cannot fulfil the office of the law any more than the law can fulfil the office of caution. They

may and should cooperate, but that is all should be expected of them.

If a bridge is unsafe, it is not enough that those responsible for its safety put up a sign, "Caution." The law demands that they make it safe.

It is not enough that we tell the British exporter to be cautious in doing business with Canada. We should make it, by the creation of efficient laws, safe for him to do business.

The reason Canada has not a national insolvency law is not because the business men of this country do not want it. They do want it; and the way they have importuned successive Governments in regard thereto demonstrates it beyond all question.

But, while the business men of this country want an insolvency law, they are partly responsible for the fact that we have not one.

They have barked at each successive Federal Administration because the desideratum was not forthcoming, but they have never bitten. And they have allowed the party muzzle to be fastened on so that they might not bite. When they have thrown aside the party muzzle and demonstrated that they will bite, irrespective of whatever party may be in power, if the just demands of the business men of this country are not complied with, then may they expect their resolutions and their importunities to become effective, until then, never.

GOOD HEALTH AND BUSINESS.

The health of a business largely depends upon the health of the merchant.

He, therefore, who would take care of his business should take care of himself. And one way which he can do the latter is to taboo long store hours.

NAILS TEN CENTS DEARER.

In consequence of the advance in the United States, both cut and wire nails are 10c. per keg dearer in Canada than they were a week ago.

Cut nails are now quoted at \$2.15 per keg base f.o.b. Montreal, Toronto, Hamilton, London, and St. John, N.B., with the usual terms and conditions. The miscellaneous

list is higher all round, the discount being 75 and 5, instead of 75 and 10 per cent.

Wire nails are quoted at \$2.65 base Toronto and at \$2.60 per keg in Montreal.

In spite of these advances, the price of both cut and wire nails is below the parity of to-day's cost of raw material.

ADVANCE IN BAR IRON AND STEEL.

LAST week reference was made to the upward tendency of domestic bar iron and the possibility of it touching the \$2 mark. It is not unlikely that this prediction may be verified before the end of the coming week, as makers, on Tuesday, advanced their base price 5c. per 100 lb. to \$1.90, and the staple has, at this writing, a strong upward tendency at the rise.

Horseshoe iron has been advanced 15c. per 100 lb. to \$2.15, with the usual extras, while sleighshoe and tire steel, at \$2.50, and toe calk at \$3, the new base prices given out this week by makers, show advances of from 5 to 10c. per 100 lb.

DROPS FROM THE EDITOR'S PEN.

Brains, supplemented by energy, are more to be desired than gold.

Energy begets gold, but gold is not productive of energy.

When a "thundering" good man is in charge business naturally booms.

A business is badly hurt when it falls from public grace.

The advertisement finds customers and prevents the merchant being lost.

It is only natural that the market should run away from merchants who are not "posted."

Keep in touch with the markets if you would not be at sea.

Opportunities are golden, but, like feathers, they will fly and away.

When merchants are at peace with each other few profits are spilt.

Ancient edifices demand our respect, but ancient business methods incur our disdain.

SIMPLE BOOKKEEPING SYSTEMS.

THE following short essay on bookkeeping appeared in *The Grocery World*, and may be of use to hardwaremen as well as to grocers.

By C. W. Mergler.

My system requires no bookkeeping whatever, or, at least, not in the sense that most bookkeepers understand the term.

It is as follows: My clerks, in the store as well as those outside soliciting orders, are provided with a duplicating pad. When an order is secured it is put down in duplicate; the original and its duplicate are not separated until they reach my hands. After the order is put up ready for delivery, the original slips pass through my hands again, prices are filled in and footed up, then the original slip, which is in bill-head form, is attached to the goods for which it is a bill and delivered with the goods. If the goods are paid when delivered, the clerk receipts the slip and reports the payment upon his return.

The duplicates are placed in a box kept for that purpose, and once a day they are all filed away in a tin box containing a series of strong paper pockets or compartments, arranged to run from No. 1 upwards. Mine contains 250 compartments. Every tenth pocket has a tag at its upper end, giving the number of that particular one, and serving as a guide to locate the numbers between; all the other pockets have the number printed on the inside near the top. Each pocket contains a card (blue ones I use) upon which I write the number of the pocket and the name of the customer to whom I have assigned that pocket. In filing away the duplicate slips, I place the new slip always to the right of the preceding ones in its pocket; in that way, all the slips will be found in consecutive order to the right of the blue card. My slips are always pink, therefore the blue card is always in evidence. At the end of the week or month, as the case may be, when the customer is expected to make a payment, the slips are all taken out of the file and a statement made by giving the date of the slip, its number (all the slips are numbered) and the total; all the totals are footed up, and that constitutes the bill.

The customer is, of course, expected to keep his or her slip, so that when he receives a bill he can easily and quickly find any mistakes.

In some rare instances, a customer, having lost the slips, will want a detailed bill, which can be very readily made out from the duplicate slips. After the bill is made out, each slip charged on the bill is checked, to show its having been so charged,

and the total of the statement is written on the face of the last one, also the date of the statement. The slips are then replaced in the pocket, but this time on the left of the blue card, and all facing to the left, the outside one having the amount and date of the last statement. This information can be arrived at instantly by simply taking out the bunch of slips, or even without taking it out, by holding the pocket open wide enough to look in.

In this way any new slips coming into the pouch will be to the right of the blue card, and always separate from those already entered on a statement. When goods are delivered to a customer in the store and charged, the original slip is always given to the purchaser with the goods, the duplicate going through the same procedure as in the case of a delivery by wagon.

If a customer makes a payment on account, a yellow slip is made out, giving the amount of bill, amount of payment and balance, if any, and name and date, of course.

This slip, with the money, is placed in a cash register, and in due course finds its way to the file pocket of the customer.

In some cases a customer prefers a pass book to a weekly or monthly statement. In such instances the order is also made out in duplicate in the pass book, and the duplicate kept for filing. Some customers only send their pass book at intervals, when making a payment. In such cases the book is made up by entering the totals of the duplicate slips.

When the slips in a pocket become too bulky they are taken out, tied or pinned in a bundle, and placed in a box kept for that purpose, thus constituting a record of the business done with that customer. About twice a year the box receives an overhauling, and all the paid slips that are over three months old are burned up. There are no books kept whatever; the duplicate slips constitute an incontrovertible record; mistakes are usually discovered at once and easily rectified at any time. Customers got so accustomed to receiving a slip with every purchase that they will wait for it, and thus contribute towards preventing the forgetfulness or the hurry of a clerk from failing to make a charge.

Such a thing as a customer disputing an account is so rare that we do not remember an instance of the kind.

My slips are all printed, and come from the factory ready for use, carbon paper attached—50 double slips in a pad, and cost about 3¼c. a pad in lots of 100 pads or

more. The expense is very light, while the saving in trouble and bookkeeping is immense.

If any of the brethren of the craft wish for more light on the subject let them "fire" their questions at me, and I will endeavor to answer them. I should mention that I have an index, arranged in alphabetical order, of all my customers' names, their pocket numbers running in order with their relative position on this alphabetical index, thus, all names beginning with A are in the first pockets beginning with No. 1, and so on. I have the index made out in typewriting, therefore it is all in a small space, and is pasted on the cover of the box containing the pockets. Each name has the number of its pocket printed beside it on the index. It works so simply that I frequently allow my 12-year-old daughter to earn her weekly "pin money" by filing away the slips. We usually have about 200 as a day's accumulation; and she files them away in less than an hour, very rarely making a mistake.—*Grocery World*.

LACK-EASE IN ADVERTISING.

The trouble is with most merchants that they try to write an ad. with "guff" which has done long service, says an exchange. They use talk which has been working overtime since 1842. Talk easily and naturally if you can. Any man who does business in his shirt sleeves and who wears the lowest kind of easy collars is uncomfortable in a high collar and a tight pair of shoes. So with his advertising. He may be easy and voluble when a lady comes into the store, but if he attempts to write an ad. he immediately freezes up, and the effect is as though he tried to play the flute in a pair of boxing gloves.

The effect is the same as in acting. It is the artist's art to be natural—the amateur thinks "to act" means to roll his eyes, breathe hard, drag his toe when he strides, and say: "Ha! I have thee in me power." Some men write ads. that wear velvet pants with lace—never a suggestion of the wide-awake little store where people would like to trade if they should ever become acquainted.

WIRE NAILS TACKS WIRE

Prompt Shipments

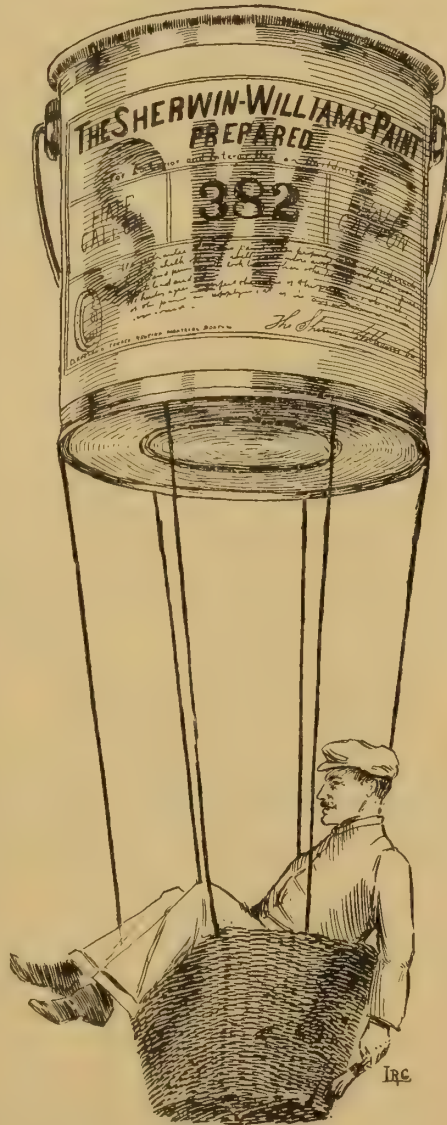
The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

To Sherwin Williams Montreal
IT'S IN THE AIR.

The success of
THE SHERWIN-WILLIAMS CO.
 is felt and talked of everywhere. It's a national success, an international success—it's in the air, everywhere.

Many wonder at it, and account for it in various ways. But the explanation is really very simple. Success did not come by chance. It did not "happen." It never does. It was earned. It is the reward for long years of patient, painstaking, ceaseless work of **one** kind, the persistent kind, that has accomplished the task of doing something better than anybody else.

That something is making paint, and



that paint is

**THE
 SHERWIN-
 WILLIAMS
 PAINT**

the first paint of the land, the greatest paint in the world. It is made in but one quality. It is put up under but one label. It is sold at but one price to everybody.

**One Quality,
 One Label,
 One Price,**

has made the enormous sale, the world-wide fame and the unrivaled reputation of The Sherwin-Williams Paint.

Nothing can stop its progress. It's growing faster to-day than ever before, and sweeps before it all opposition because of its merit.



THE SHERWIN-WILLIAMS CO.
PAINT AND COLOR MAKERS.

CLEVELAND, CHICAGO, NEW YORK, MONTREAL, BOSTON.

A TRANSCONTINENTAL TRIP.

HARDWARE AND METAL accidentally met Mr. John Fennell, of Berlin, and Mr. William H. Evans, of The Canada Paint Company, Montreal, at the company's offices on Bay street, Toronto. Asked what he thought of the vast country to the west of us, Mr. Evans, who had just returned from the Pacific Coast, said he was highly delighted and more convinced than ever that there was a great future in store for the Dominion of Canada.

"What do you think of Victoria, British Columbia?"

"Residentially," replied Mr. Evans, "it is the most picturesque city I was ever in, reminding one, as it were, of the Scottish hills mingled with the quiet richness of Devonshire or Cornwall, England. Victoria, for beauty of situation and noble surroundings of water, rock, forest and cultivated stretches, is hard to beat, and it is difficult for an 'everyday' commercial man to even attempt a description of the rich and varied scenery which appeals to one at every point. The panorama unfolded in a walk up Belcher street is a revelation to those who 'move and have their being' in a comparatively level city, and goes to show that architects may design fine houses, the owner spend lavishly, and the landscape gardener be the cleverest, but without Nature's adjuncts of hill, dale and coast line, such as you have in British Columbia, the results, to the lover of genuine scenery, are tame. There is no necessity to drive out miles away to enjoy the views. Within the city limits one can easily take strolls and feast the eye with noble vistas at each step."

"Esquimalt is strongly fortified, is it not?"

"Yes, very much so. It is a charming spot, and our escort, a red-coated 'Joey,' who took us in charge at the gate, said the place was mined and there were hidden batteries in the most unsuspecting places everywhere. We inspected H.M.S. 'Amphion,' which had just returned from a long cruise in the South Sea Islands, and were introduced to 'Sally,' a goat of the 'Nannie' persuasion, which the sailors had brought away from the Island of Juan Fernandez, better known as the Island of Alexander Selkirk, or Robinson Crusoe."

"It must be a healthy place, by the sea?"

"Very, it ruddy faces speak anything, and the ladies of Victoria! Ye gods, what complexions! Rich and rare, reminding one of the warm colorings seen in the south of Ireland, or the coast towns of Great Britain."

"Did you see Joe Martin out there, and how is Victoria for business?"

"I saw Mr. Martin occasionally at the

"Driard," apparently discussing the situation with Mr. Ludgate, of Deadman's Island fame, but, unfortunately, I had not the pleasure of Mr. Martin's acquaintance. Regarding business, Victoria is well situated, and trade, while not rushing, may be termed brisk. The hardwaremen are a fine, genial body of men, and large stocks of iron, steel, shelf hardware, and mining supplies are carried. Ship chandlery is quite a feature in some of the stores."

"Are the shops well equipped and up-to-date?"

"Certainly. The leading firms are E. B. Marvin & Co., Peter McQuade & Son, Nicholles & Renouf, Sydney Shore, and Walter S. Fraser. I very frequently saw HARDWARE AND METAL on the counters there, so you must be pretty well known on the Coast. The special spring number was very much admired."

"Thanks, we have a great many subscribers out West. Glad the paper is appreciated. Did you return by the American route?"

"No, I took a run down to San Francisco, a magnificent city of delightful interest, and returned by Vancouver after a very enjoyable day in New Westminster. Am sorry I cannot, at the moment, say a few words about the development in the lusty city of Vancouver, the C.P.R. and Winnipeg. The go-ahead spirit everywhere is simply marvelous, but, as the parsons say, 'time forbids.'"

DAVIDSON'S STOVEBOARDS.

ONE of the big departments of The Thos. Davidson Manufacturing Co., Limited's plant is the lithographing department, which, though little known to the general trade, yet, with large packers, or manufacturers of patent medicines who use lithographic tins or signs, this department does a big business. With slight additions to the facilities thus afforded The Thos. Davidson Manufacturing Co., Limited, have in the past been able to turn out a stoveboard of a high order. The artistic work in the design is always unique, tasty and elegant, the colors harmonizing beautifully, while the seamless corner, doing away with the old corner clip, which was an eyesore as well as a nuisance, was an improvement greatly appreciated. Making a seamless board was the greatest undertaking, requiring the installation of the largest lithographing stones in use today in Canada. At enormous expense this difficulty was overcome, and from the Atlantic to the Pacific Davidson's stoveboards are now well known.

The design of this season's board is just out, and is a marvel of the printers' art. Following the very latest fad the design is

an imitation of tile work, while the blending of the colors is so pleasant that not even the taste of the most fastidious could be offended. The boards will be finished in two styles, as usual, "Elegant" and "Crystallized," and samples are now in the hands of the travelers.

The Webster Manufacturing Company have secured the contract to supply a 500,000-bushel grain elevator required by the Intercolonial railway, at Halifax, N.S. The contract is valued at \$320,000. Considerable machinery is included in the order, which is to be pushed with all possible speed.
—New York Commercial.

**New Models
of
1899
Iver Johnson Cycles
\$25
&
\$35.**

Good wheels Cheap

**Other Models,
\$40
\$50
\$60
\$75**

**Honest Cycles
at
Honest Prices.**

Send for catalogue.

**Iver Johnson's Arms
& Cycle Works,
Fitchburg, Mass.**

Branches:

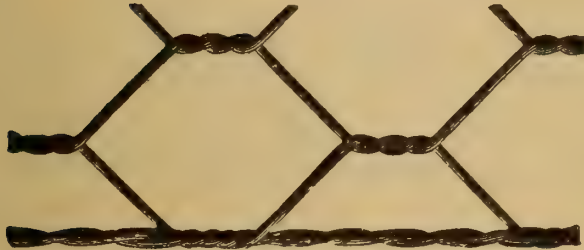
NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

H. S. HOWLAND, SONS & CO.

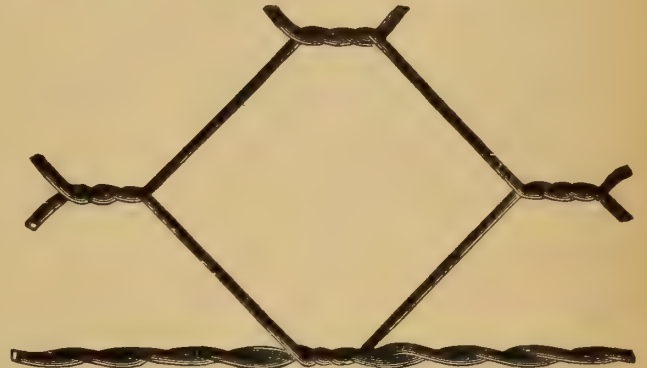
Wholesale Only

37-39 Front Street West, TORONTO

In Stock POULTRY NETTING In Stock

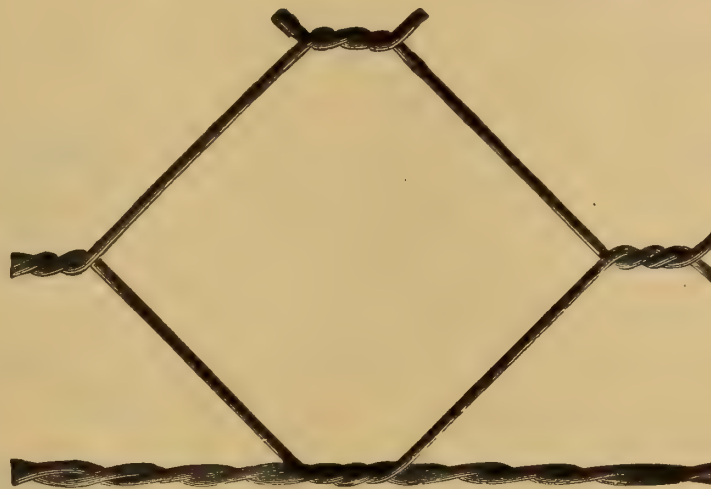


$\frac{1}{2}$ -in. Mesh, 19 Gauge, 30 in. wide.
 $\frac{3}{4}$ -in. Mesh, 20 Gauge, 24 in., 36 in. wide.
 1-in. Mesh, 20 Gauge, 30 in., 36 in. wide.



$1\frac{1}{2}$ -in. Mesh, 19 Gauge, 24 in., 30 in. wide.

IN STOCK.
 Orders filled at
 market prices.



2-in. Mesh, 19 Gauge, 12, 18, 24, 30, 36, 42, 48, 60, 72, 84-in. wide.

IN STOCK.
 Orders filled at
 market prices.

BARB WIRE.



4-Barb, 4 in. between.
 4-Barb, 6 in. between.

PLAIN WIRE.



2-Barb, 3 in. between.
 2-Barb, 5 in. between.

Oiled and Annealed, 10, 11, 12. Annealed (Hay Baling) 14.
 Plain Galvanized, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
 Tinnings' Wires, 7, 8, 9, 10, 11, 12.

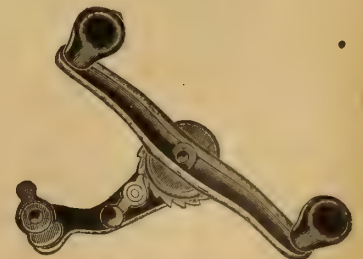
WIRE STRETCHER.



$1\frac{1}{2}$, $1\frac{3}{4}$, $2\frac{1}{2}$ -in.



Hercules.



Samson.

H. S. HOWLAND, SONS & CO., TORONTO.

Graham Cut and Wire Nails are the Best.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

THOS. W. JOHNS has been appointed liquidator of The Burrill, Johnson Iron Co., Limited, founders, Yarmouth, N.S.

Wm. J. Washburn, builder, Chesley, Ont., has assigned to C. J. Mickle.

J. N. Lachapelle, general merchant, St. Jovite, Que., is offering 60c. on the dollar.

W. J. Kelly & Co., general merchants, Alliston, Ont., have assigned to J. G. Hay.

Francois Belanger, general merchant, Ville Marie, is offering 50c. on the dollar.

The Gibson Coal Co., Brantford, Ont., have assigned to A. K. Bunnell, Brantford.

Keddy & Co., general merchants, Merlin, Ont., have assigned to C. B. Armstrong, London.

The creditors of J. A. L. Jutras, general merchant, Richmond, Que., have held a meeting.

Donald J. McLachlan, contractor, Sandon, B.C., has assigned to John W. Balmain.

Joron Damase, sash and door factory, Pont Viau, Que., has assigned to Bilodeau & Renaud.

PARTNERSHIPS FORMED AND DISSOLVED.

Miskelly & Ennis, tinsmiths, Brooklin, Ont., have dissolved, D. M. Miskelly continuing.

Florian Duval and Louis Fabreau have registered partnership as machinists in Montreal.

Coppleman & McClocklin, general merchants, Carberry, Man., have dissolved, C. McClocklin continuing.

Napoleon Gingras and Charles Bernard have registered as partners under the style of Gingras & Co., painters, Montreal.

SALES MADE AND PENDING.

Ulric Roch, general merchant, St. Norbett, Que., is selling out.

Bramm Bros., millers and brickmakers, Berlin, Ont., are advertising their mill for sale.

J. Edgar Batton, general merchant, Kentville, N.S., is advertising his business for sale.

The assets of P. E. Hudon, general merchant, Hebertville, Que., are to be sold on the 10th inst.

The assets of M. S. Taylor & Co., general merchants, Mansonville, Que., are to be sold on the 13th inst.

The stock, etc., of Henry Hall, general merchant, Sheet Harbor, N.S., is advertised for sale by the sheriff.

The business of Emerson & Campbell, manufacturers of hay slings, etc., Tweed, Ont., is advertised for sale.

W. T. Stratford & Co., general merchants, Fairview and Slocan, B.C., are offering their Slocan business for sale.

The stock, machinery, etc., of The Comet Cycle Co., manufacturers of bicycles, etc., Toronto, are advertised for sale by auction on the 12th inst.

CHANGES.

Philippe Roch is opening a general store in St. Norbett, Que.

Joseph Hill, general merchant, Thornby, Que., has sold out to Wilkins & Clark.

J. H. M. Carson, hardware dealer, Macleod, Man., has sold out to A. F. Grady.

A. J. Pyne, general merchant, Heyworth, Que., has been succeeded by John Garbutt.

Moise Rielle, tinsmith, St. Antoine Abbe, Que., has removed to St. Chrysostome, Que.

Ulric Roch is commencing business as hardware dealer in St. Gabriel de Brandon, Que.

Joseph Blais, blacksmith, Napierville, Que., has been succeeded by Joseph Frecette.

Paradis & Letourneau have registered as proprietors of a brick manufacturing business in Quebec.

J. Thompson, hardware dealer, etc., Elgin, Man., has sold his business to Temple & Maguire.

FIRES.

D. McCaffrey's planing mill, Huntsville, Ont., has been burned.

W. Goldberg, dealer in rags, scrap iron, etc., Hamilton, Ont., has been burned out.

Chas. Bradley, boilermaker, St. John, N.B., has been burned out; insurance, \$1,200.

Taylor & Williamson, machinists, St. John, N.B., have been burned out; insurance, \$1,400.

J. Horncastle & Co., hardware dealers, St. John, N.B., have been burned out; insurance, \$10,400.

Alfred Dickie, lumber dealer, Lower Stewiacke, N.S., has been burned out; loss, \$30,000; insurance, \$10,000.

REOPENING VARNISH WORKS.

To keep pace with the heavy demand for japans and varnishes which has set in, The Canada Paint Company are starting up their Leslie street factory, in Toronto, with a large staff of expert workmen. This has been found necessary, owing to the congestion at their Montreal works. The Canada Paint Company have excellent facilities for increasing their business, as they own a well-equipped factory with a site embracing about two acres in the east end of Toronto.

APPOINTING AGENTS FOR CANADA.

Mr. A. E. Munro, representing Wm. C. Rudkin, manufacturers' export agent, 29 Grace Church street, London, Eng., is in Canada appointing agents for a number of lines controlled by his firm. For most of them there is a considerable sale in Canada, but they have been hitherto sold direct. He expects to develop a large business, as they do an extensive trade in Australia, Africa and India.


CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICES.




PRIEST'S CLIPPERS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., U.S.A.



COATES' CLIPPERS
HAND AND POWER, easiest running made. Manufactured in a very style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
Coates Clipper Mfg. Co.
WORCESTER, MASS



Pullman Sash Balance Co.
Makers of the
"Pullman" Hardware Specialties
Main Office and Works,
Rochester, N.Y., U.S.A.



Size,
3/4-inch.
Cheapest IN THE WORLD.
J. M. LITCHFIELD
458 Quincy St.,
Brooklyn, N.Y.



The Daisy Sanitary Earth Closet
Made entirely of Metal, and Ventilated.
Designed for dwellings and places where water closets cannot be used
Price, \$15.00
Write for circulars and trade discounts.
16 Queen St. East, TORONTO.
Headquarters for Builders' Castings, Sash Weights, etc.
THE TORONTO FURNACE AND CREMATORY CO., Limited

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE various industrial concerns in this district still wear a holiday aspect, although in some branches, such as the heavy engineering and boiler-making trades, the cessation of operations has been less prolonged than usual. The general tone of trade is fairly satisfactory; but the prospects are scarcely so bright as would be the case if the metal markets were a little easier. Galvanized-iron manufacturers have now more orders on their books than for some time past, and the makers of galvanized odd ware are likewise in a happier frame of mind thanks to the receipt of a number of excellent orders. As is the case in the North, tubemakers in the Midlands generally report a revival of briskness, and a gratifying activity is also noticed amongst makers of iron hurdles. In the chain and anchor and nut and bolt industries a fairly large volume of business is now flowing in.—Ironmonger.

FOUR MONTHS OF COPPER PRODUCTION.

D. Houston & Co. in their June circular remark: "Statistically considered, the position of copper continues highly favorable. Production during the first four months of this year shows an increase of only 2.6 per cent. compared with an increase of 11.6 per cent. for the same period last year. Furthermore, as per official returns, out of 80,395 tons of copper produced here from January 1 to April 30 this year 40,963 tons remained in this country, with which to meet the greatly increased domestic demand. During the same period last year 32,524 tons were kept in this country, against 78,356 tons produced in the first four months of 1898. Adding the imports at United States ports during the months of January, February, March and April this year the apparent American consumption of copper for this period is 47,705 tons, or at the rate of 143,115 tons per annum. Electrical expansion will go on in the future, and no other substitute for copper can be expected to supplant its use, and the idea is absurd. It is worthy of note that a leading expert of wide experience in the application of traction power has recently declared that air power nor any other power will be a successful competitor with electricity."

IRON PRICES IN FRANCE.

The rising tendency of the iron and steel market, according to an English trade journal, does not appear to be lessened by the advances actually made during the past fortnight. Indeed, the course of the market since the opening of the year adds another illustration of the truth of the old French

proverb that "it is only the first step which is difficult." The earlier advances were looked upon as dangerous, and not likely to be sustained, and buyers were anxious lest they might be "left" with high-priced stocks on their hands, and a falling market. Each successive advance has been easier to make, and consumers appear to have been gradually convinced that there was a real scarcity of materials, and an increasing demand for them, and to have come to the conclusion that there was more danger of loss in withholding their orders than in following the upward swing of the market pendulum, and boldly contracting for future deliveries.

ADVANCE IN FINISHED IRON.

The Pearson and Knowles Coal and Iron Company have this week issued new lists advancing their quotations for bars, plates and sheets 5s. per ton. The basis prices for this company's iron are now: Bars, £7 10s.; bridge plates, £8 5s.; boiler-plates, £8 15s.; sheets, £8 10s.; and hoops, £7 15s. Puddled bars are now advanced 5s. per ton to £5 15s. A corresponding advance is occurring in all districts, and we hear that manufacturers are now inundated with orders and inquiries. The accountant's return to the Board of Conciliation and Arbitration for the Manufactured Iron and Steel Trades of the North of England, for March and April, was made yesterday. Messrs. Wimpenny and Cox, the secretaries of the board, declare that in accordance with the sliding scale arrangement the wages for the months of June and July will be the same as prevailed during the preceding two months. Mr. Waterhouse's declaration is as follows: Having collected from the firms and companies belonging to, or associated for this purpose with your board, the returns of their sales of manufactured iron for the two months ending 30th April last, and having verified the same by an examination of their books, I certify the average net selling price per ton to have been £5 17s. 2.17d. The sales and price during the two months ending April 30 were: Rails, 656 tons, £5 4s. 9.08d.; plates, 10,211 tons, £5 16s. 10.63d.; bars, 13,130 tons, £5 18s. 2.15d.; angles, 3,309 tons, £5 16s. 7.53d. Total production for the two months of all classes was 27,306, as against 25,382 tons in January and February. The net average price in the first two months of the year was £5 13s. 2.86d.—Iron and Steel Trades Journal, London, May 27.

PIG IRON IN GREAT BRITAIN.

In the early part of the week business was neglected on the Glasgow Exchange,

and transactions were few and far between, but the tone was fully as firm as when business was suspended last week. Scotch warrants, after being easier at 63s. 6d. improved yesterday to 63s. 9d. To-day the market was irregular closing at 63s. 9d. cash, 63s. 11d. three months. There has been a very strong tone in the market for West Coast hematite pig iron, and the price has advanced to 67s. 9d., at which the market closed to-day. It is believed that operators for a fall have been caught oversold and still higher prices may be touched. Cleveland No. 3 warrants have advanced to 57s. 4½d. cash. The shipments of pig iron from Scotland are smaller and it seems certain that they will be restricted while prices continue so high, but this is a matter of secondary importance, as the bulk of the iron now made is wanted for local consumption. At Middlesbrough everything has a very healthy appearance in the iron trade, and here high prices seem to have little effect on shipping demand. The shipments of hematite from the West Coast ports are just equal to those for the corresponding part of last year, and as this year stocks in warrant stores have increased 52,000 tons there is apparently no scarcity of iron in the district. The shipments of pig iron have been 193,000 tons and steel 203,000 tons, and the latter figures are 22,000 tons below those for 1898. Certainly, the steelworks are using as much iron as last year, and the explanation of the accumulation in the stores is that the iron was bought and stored by speculators, but it is now thought to have again become the property of the producers.—Iron and Steel Trades Journal, May 27.

TINPLATES IN GREAT BRITAIN.

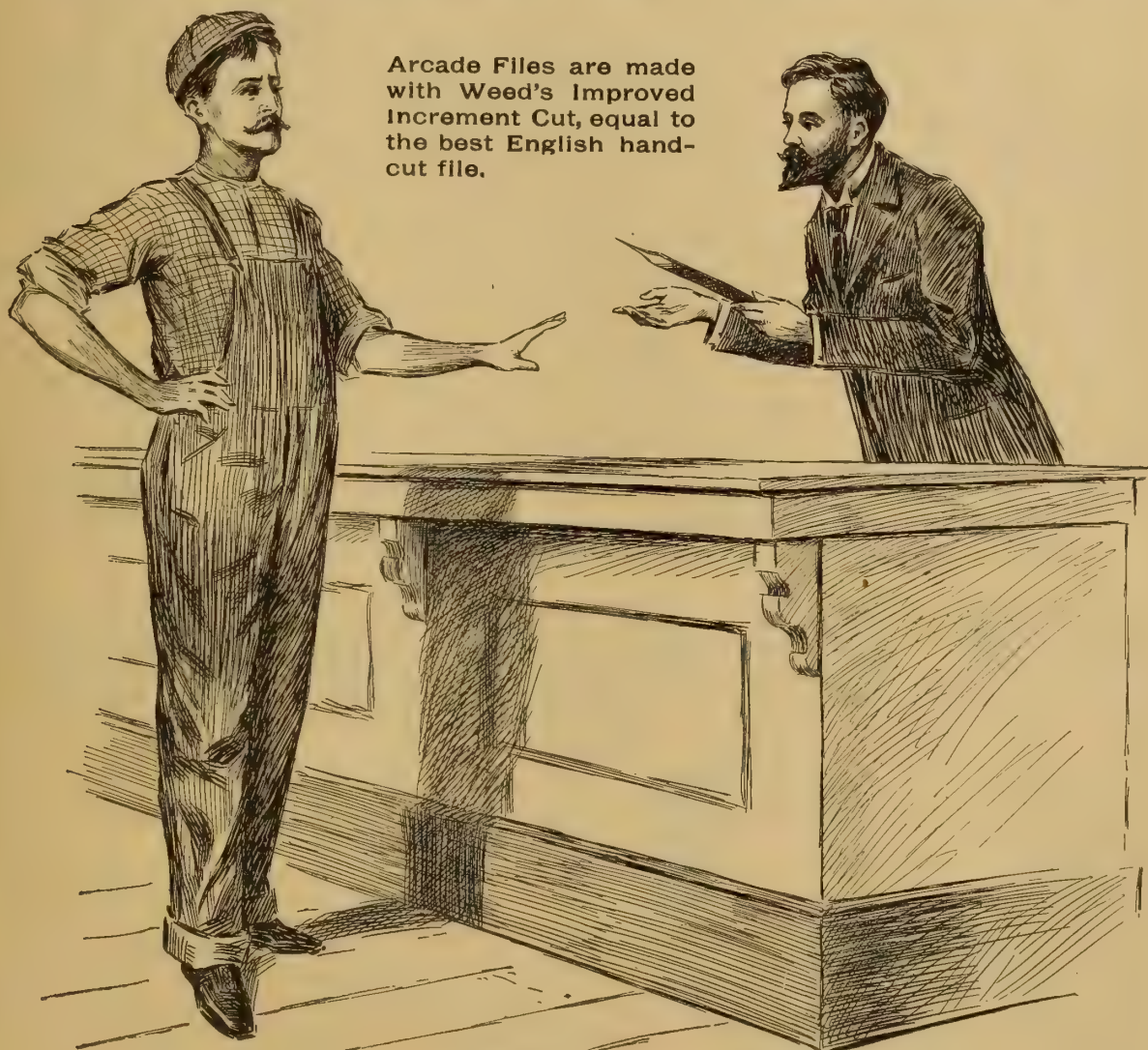
The holidays have greatly interfered with business during the past week, and the trade that has been done has been of a very limited character. The value of raw materials remains very high. The demand for black plate continues good, and sales are reported of "finished" at from £8 17s. 6d. to £9 5s. per ton for I. C. substance, according to specification. The oil-size buyers refuse to be tempted by present prices, although some small lines have been done within the past week at 12s. 1½d. and 12s. 3d. per box of I. C. 14 by 18½, 124 sheets, 110 lb., f.o.b. Swansea. No transactions of any moment, however, have taken place for some time now in this size. There is still a fair inquiry from the Continent, and orders have been booked during the last few days at from 12s. 3d. to 13s., I. C. basis, f.o.b. Swansea. Charcoals have been asked for during the past week, and one or two lines have gone through, but the trade in this class of plate seems to have fallen off considerably of late, owing presumably to the enhanced value of tin, consumers evidently thinking it wiser to buy from hand to mouth. There is no prospect of values falling to any appreciable extent for some time to come, most makers being fully booked over the next two or three months.—Ironmonger, London.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

There is no other file "just as good."

THE ARCADE IS THE BEST



"I want an ARCADE file."

"We are all out of ARCADE files. Try this; it is just as good."

"No, Sir. I want the ARCADE. It cuts faster and wears longer than any other file made."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL June 9, 1899.
HARDWARE.

EACH week appears to bring with it as an inevitable consequence further appreciation in values, and the one under review is no exception. From the following reports it will be noted that there have been advances of a very material kind in smooth steel wire, galvanized wire, fence staples, wire and cut nails, pig iron, bar iron and several descriptions of heavy steel. In fact, there appears to be no top to the general hardware market, and further increases in values seem to be the general expectation. This buoyant tendency is, of course, influencing buyers, but sellers are following a very conservative course in the matter of booking orders for future delivery.

BARBED WIRE—Imported barbed wire is higher, but there is no change in the domestic material, which is quoted at \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—There has been an advance in this line of 10c., it now being quoted at \$2.60 base f.o.b. factory.

FINE STEEL WIRE—A fair demand is noted and discounts are unchanged at 25 per cent.

GALVANIZED WIRE—With prices of all raw material advancing, the base price on this article is firmer at \$3 f.o.b. Montreal for No. 9.

BRASS AND COPPER WIRE—Firmly held, with a fair trade moving. Discounts are 50 and 2½ off on brass, and 45 and 10 on copper wire.

FENCE STAPLES—Large quantities of these are moving from makers' hands, and, in consequence of the increased cost of raw material, prices are marked up 15c., the base now being \$3.05 on bright, and \$3.65 on galvanized per keg of 100 lb.

OTHER STAPLES—These continue firm as noted at last week's rise. Discounts are cooper, 55c.; poultry netting, 45, and electrician, broom, bed, etc., 40 per cent. off.

WIRE NAILS—Demand for these is well maintained, and prices have advanced 10c., the base price being \$2.60. In the miscellaneous list of wire nails prices have also

been advanced 5 per cent., the discount being 75 and 5 off, instead of 75 and 10.

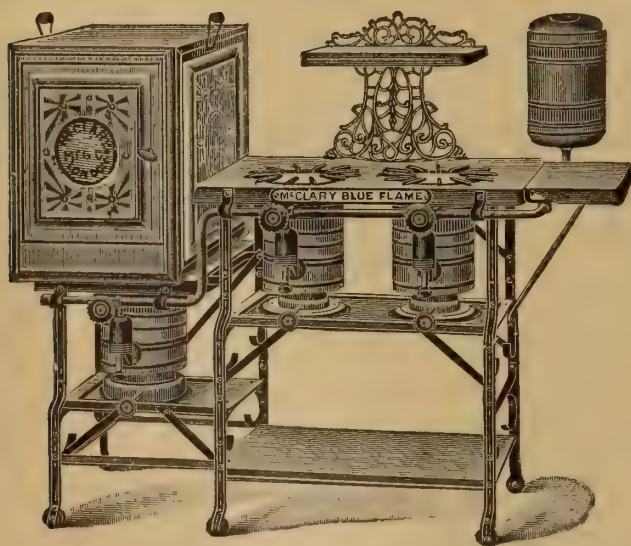
CUT NAILS—With all raw material increasing in cost an advance in the price of these was inevitable. It came this week in the shape of a rise of 10c. per keg, the base now being \$2.15 f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.Br

HORSE NAILS—There is no change in these, and demand is light; standard 50 and Acadia 50 and 20 per cent. off list.

HORSESHOES—Trade is quiet. We quote as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; featherweight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

TACKS—Steady, with trade fair. We quote: Carpet tacks, blued or bright, for 6,

Wickless Blue Flame Oil Stoves



For Coal Oil—two and three burners.

Gives a clear blue flame of intense heat and does not smoke.

Our patented sight feed shows you what quantity of oil is being used.

The measuring cup always retains just sufficient oil for lighting the burner (**no waiting**).

Easy to operate.

TURN ON THE OIL,

TOUCH A MATCH,

THE BURNER DOES THE REST.

Order a sample.

We ship orders quick.

The McClary Manufacturing Company

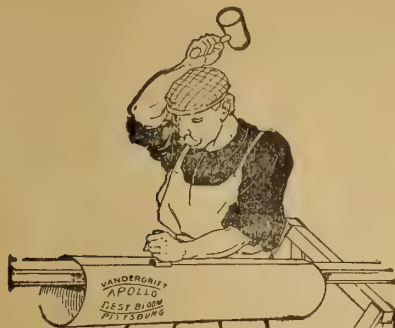
LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



Why, we haven't half of the galvanized-iron business! Apollo Best Bloom, and not half the business!!

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND ROMAN KEENE'S**

Bricks . . { **FIRE BUILDING PAVING**

Sand . . . { **SILICA FIRE MOULDING BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

8 and 10 oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE POINTED TACKS—Firm, with discounts in dozens 85 and 10 per cent., and in bulk 40 per cent.

SCREWS—Fairly active. We quote: Flat head, bright, 82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—A seasonable trade is doing. Discounts: Carriage bolts, 5-16 and smaller, 60 per cent., and ¾ and larger, 55 per cent.; machine bolts, 60 per cent.; coach screws, 75 per cent., and sleighshoe bolts, 75 per cent.

RIVETS—Steady, as last noted. Discounts now are: Black and tinned, 50 per cent.; ditto burrs 45 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—There is a fair demand for rope. Values are steady. We quote: Manila, 11¼c.; sisal, 10¾c., and lath yarn, 9¾c.; binder twine manila, 10½c., and sisal, 9½c.

SHOT—Unchanged at 6c. for ordinary and 6½c. for chilled.

CEMENT—Fair, with some large sales on Ontario and Quebec account. We quote: Belgian, \$1.90 to \$2.10; English \$2.30 to \$2.40, and German, \$2.45 to \$2.65, per cask, ex wharf.

FIREBRICKS—A fair trade is moving at \$12 to \$23 per 1,000 ex wharf.

METALS.

All kinds of heavy iron material shows an upward tendency and higher prices will be noted in connection with several important lines in the following reports:

PIG IRON—This material maintains its upward tendency, round lots of Hamilton iron changing hands at \$20.50 per ton as to quantity. Standard brands of Scotch pig are unobtainable at the moment, one importer trying to secure 500 tons the other day, but could only procure 200, and the price of this lot was too high for him.

BAR IRON—There has been a further advance in bar iron of 5c. per 100 lb. to \$1.90, and, from present appearances, our prediction of last week of \$2 bar iron, may be fulfilled before the present week is out.

BLACK SHEETS—The strong tendency on black sheets is quite marked, though there has been no further quotable change here. Prices are: 10 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25, and 28, \$2.30.

HOOP IRON—The inside price for hoop iron is \$2.70.

STEEL—There has been an advance of from 5 to 10c. in steel, and we now quote: Sleighshoe and tire, \$2.50; spring, \$2.70; machinery, \$3, and toe calk, \$3.

SHEET IRON STEEL

All grades for import at closest prices.

A. C. LESLIE & CO.

MONTREAL.

Sanderson's Cast Steel in stock.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS
JUST BORE

NO SCREWS
FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

1C and 1X 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

HORSESHOE IRON — This material has been advanced 15c. per 100 lb. to \$2.15 base.

GALVANIZED IRON—There is a fair movement in galvanized iron, and prices are firmly held. We quote: No. 28 Queen's Head, \$4.75, and Comet, \$4.40.

INGOT COPPER — Continues stiff, with sales of round lots at 19½c. and smaller quantities at 20c.

INGOT TIN — The firm feeling in this metal is maintained, and jobbing quantities cannot be had under 30c., though a round lot might be shaded.

PIG LEAD—Firmly held at \$4.25.

LEAD PIPE — Unchanged. We quote 7c. for ordinary, and 7¼c. for composition waste, with 17½ per cent. discount.

IRON PIPE—Firmly held, with a good demand. We quote as follows: Black pipe, ½ and ¾-inch, \$2.98; ½-inch, \$2.95; ¾-inch, \$3.55; 1-inch, \$4.90; 1¼-inch, \$6.50; 1½-inch \$8.25, and 2-inch, \$10.50. Galvanized pipe, ½ and ¾-inch, \$5.64; ½-inch, \$6.64; ¾-inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—These continue firm with an upward tendency, and business is fairly active. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4 for 52's.

TINPLATES — These also point upwards under a good demand, limited supplies, and increased cost at primary points. We quote as follows: Coke, I.C., \$3.25; charcoal, I.C., Allaway or Comet brands, \$3.50; do. I. X., \$4.25; Lincoln, \$3.75; P. D. Crown, \$4; do. I.X., \$5; Bradley's, \$5.80.

TERNE PLATE—Firm and unchanged at \$6.25.

COIL CHAIN—Steady, as last reported. We quote: No. 6, 10½c.; No. 5, 9c.; No. 4 8c., and No. 3, 7c. per lb.; ¼-inch, \$5.75; 5-16, \$4.50; ¾, \$4; 7-16, \$3.55; ½, \$3.75; 9-16, \$3.70; ⅝, \$3.60; ¾, \$3.40, and ⅞, \$3.30 per 100 lb.

SHEET ZINC — A fair trade is reported at steady prices; 8 to 8¼c.

ANTIMONY—Firm at 10 to 11c.

SPELTER—Prices held firm at \$7 base.

GLASS.

There is no change in window glass, but a good trade is passing, and values are firm. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

There is a seasonable movement in all lines of material in this department, and

values are firm in all lines, while red lead has been advanced ¼c. as noted below. Turpentine is easier, having declined 1c.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.50.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6½c.; in oil, pure, 9c.; No. 1, 7½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 52 to 53c.; boiled, 55 to 56c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 63c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COD OIL—37½ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Turpentine is 1c. down on last week's basis.

A similar alteration is noted in the case of cut nails.

There has been an advance of 10c. in smooth steel wire.

There has been an advance of ¼c. per lb. in pure red lead.

Heavy steel is from 5 to 10c. higher, according to description.

Fence staples are 10c. above what they were quoted at last week.

Standard wire nails are 10c. up, and miscellaneous have been advanced 5 per cent.

The Thos. Davidson Manufacturing Co., Limited, Montreal, report sales of the "Standard" wickless oil stoves to be large this season. Dealers handling them are enthusiastic as to the simplicity of their operation.

Oakey's The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

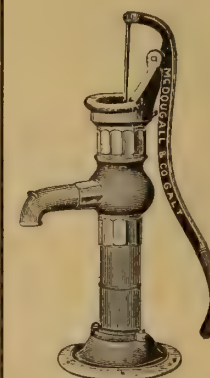
SEYBOLD, SON & CO. - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND
BRASS

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited
Manufacturers, Galt, Canada.

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"Get the
Best."

Mrs. of

Cages,
Tinware,
Lanterns,
Traps,
Stovepipe
and
Elbows.



Send for new
Catalogue.

ONTARIO MARKETS.

TORONTO, June 9, 1899.

HARDWARE.

BUSINESS in wholesale hardware is brisk this week, and rather more so than a week ago. A feature of the trade is a marked increase in the number of letter orders. As far as prices are concerned, the principal feature is an advance of 10c. per keg in both wire and cut nails, and of 10c. per 100 lb. in the base price of smooth wire. The advance in wire nails appears to have stimulated the demand somewhat. Cut nails are still quiet, however. There is not a great deal being done in wire. Everyone appears to be wanting such seasonable lines as screen doors and windows, garden hose, garden tools, harvest tools, spades and shovels, etc., and in most of these lines the demand exceeds the supply. Binder twine is now being delivered rather freely. The general tone of the hardware market is strong.

BARBED WIRE—Prices are unchanged at last week's advance. Business is moderate. We quote \$3.25 to \$3.30 per 100 lb. Plain twist is quoted at the same figure.

SMOOTH STEEL WIRE—The base price has been advanced 10c., and is now \$2.60 f.o.b. factory point.

FINE STEEL WIRE—No change has been made in this line, the discount still being 25 per cent. f.o.b. factory. Business is quiet.

GALVANIZED WIRE—The market is firm at quotations. The demand is fair: Nos. 6, 7, 8 gauge, \$3.40; No. 9, \$2.90; No. 10, \$3.50; No. 11, \$3.55; No. 12, \$3.05; No. 13, \$3.15; No. 14, \$3.90; No. 15, \$4.50; No. 16, \$4.65.

WIRE NAILS—The base price is 10c. per keg higher than a week ago, the figure now being \$2.65 f. o. b. Toronto. The demand has improved with the improvement in prices.

CUT NAILS—These are also 10c. per keg dearer, the base price being \$2.15, f.o.b. Toronto, Hamilton and London.

HORSE NAILS—Business is still only moderate. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—The movement is light with prices unchanged. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—The demand continues good with prices firm. We quote: Flat head

LET US HAVE YOUR ORDER NOW

Crimped Galvanized Iron

For Cornice Work.

Also

Black Sheet Iron

We can supply any size or gauge desired.

SEND US YOUR SPECIFICATIONS.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—There is a good trade still being done, although the bulk of the business appears to have been done. We quote: Norway bolts, full square, 70 per cent.; common carriage bolts, 5-16 and under, 60 per cent.; ditto, ¾ and larger, 55 per cent.; ditto, full square, 70 per cent.; machine bolts, all sizes, 60 per cent.; coach screws, 75 per cent.; sleighshoe bolts, 75 per cent.; blank bolts, 60 per cent.; bolt ends, 65 per cent.; nuts, square, 4½c.; nuts, hexagon, 5c.; tapping nuts, 70 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent.

RIVETS AND BURRS—Trade is fair. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 50 per cent.; iron burrs, 45 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—The hemp market rules strong. Locally, quotations on rope are as before. We quote: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand, 9½c. per lb.; Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Fair shipments are being made. We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—Business continues fair. We quote: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—Business continues fairly good. We quote as follows: Plain building, 28c. per roll; tarred lining, 35c., according to quality; tarred roofing felt, \$1.40 per 100 lb.; carpet felt, \$2.25 per 100 lb.

GREEN WIRE CLOTH—The demand is still active and prices firm at \$1.50 per 100 square feet.

POULTRY NETTING—The movement continues good. Discount, 50 and 5 per cent.

EAVETROUGHS—Demand is still fair. We quote: 3 inch, \$2.80; 4 inch, \$3.50; 5 inch, \$4; 6 inch, \$5.25.

SPADES AND SHOVELS—A good movement in these is still reported. Discount is unchanged at 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—There is a good movement this week in these lines. Discount, 60, 10 and 5 per cent.

CEMENT—A steady trade is reported throughout the Province. The greatest consumers, at the moment, are contractors asphaltting Toronto streets for which Canadian Portland is being used. Very

imported cement is offering. Prices are steady. We quote in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

CLOSETS—The sale of these goods has been unusually brisk. Prices are firm throughout. Embossed washout closets, which have been quoted for some time at \$3.50 to \$3.75, are now selling at \$4, an advance of 25 to 50c.

BINDER TWINE—Shipments of binder twine are now being made, and deliveries are quite free.

METALS.

The metal market generally is steady to firm. Local quotations on bright coke plates, bar copper and iron pipe are all higher.

PIG IRON—An order was placed by a Toronto firm this week for 4,000 tons of No. 2 United States pig iron. The price was \$16.90 in bond Toronto, delivery to be made the first six months of next year. Since the order was placed the price has advanced \$1 per ton. In January last this same firm placed an order at \$12.10 in bond Toronto for the same grade of iron. We quote No. 1 Hamilton iron at \$18.50 to \$19 at the furnace.

BAR IRON—Another advance of 10c. per 100 lb. has been made, and we now quote the base at \$1.90 to \$1.95.

BLACK SHEETS—A good trade is reported in this line. Prices range from \$2.40 for 18 gauge to \$2.85 for 28 gauge.

GALVANIZED IRON—A good demand is still to be noted. The price of "Gordon Crown" has been advanced, and is now quoted at the same figure as "Queen's Head," namely, \$4.75 for 28 gauge. American is quoted at \$4.60 for 28 gauge.

COPPER—The outside copper markets are steady. Locally, ingot is unchanged, but bar copper is $\frac{1}{2}$ to 1c. per lb. dearer, being now quoted at 23 $\frac{1}{2}$ to 25c. Ingot is 19 to 19 $\frac{1}{2}$ c. per lb., and sheet 23 to 23 $\frac{1}{2}$ c.

BRASS—Trade is good in this line and prices unchanged. The discount off the list on roll and sheet is 5 per cent.

PIG TIN—A little more activity has developed during the week. Local quotations are: 30c. for Lamb and Flag, and 29c. for Straits. London cables are weaker.

TINNED SHEETS—A fair trade is noted. We quote: 24-gauge, 6 to 6 $\frac{3}{4}$ c.; 26-gauge, 6 $\frac{3}{4}$ to 7c.; 28-gauge, 7 $\frac{1}{2}$ to 7 $\frac{3}{4}$ c. per lb.

TINPLATES—Trade is fairly good. Bright coke plates are 20 to 50c. higher. The base price is now \$3.85 per box.

CANADA PLATES—Business is quiet, with prices unchanged. We quote: All dull, \$2.70 per box; half-polished, \$2.60; all bright, \$3.10 per box.

LEAD PIPE—Trade continues good. We quote: Ordinary pipe, 7c.; waste, 7 $\frac{1}{2}$ c. Discount, 17 $\frac{1}{2}$ per cent.

PIG LEAD—Is not as active as it was. Prices are steady on the outside markets, notwithstanding that business there is quite slow. Local jobbers still quote 4 $\frac{1}{4}$ to 4 $\frac{1}{2}$ c. per lb.

IRON PIPE—As noted in our editorial columns, there has been another advance in the price of both black and galvanized pipe. We quote as follows: $\frac{1}{8}$ to $\frac{3}{8}$ inch, \$3.10; $\frac{1}{2}$ inch, \$3.25; $\frac{3}{4}$ inch, \$3.80; 1 inch, \$5.25; 1 $\frac{1}{4}$ inch, \$7; 1 $\frac{1}{2}$ inch, \$8.75; 2 inch, \$12; 2 $\frac{1}{2}$ to 6 inch, discount 60 per cent. Galvanized pipe: $\frac{1}{2}$ inch, \$6; $\frac{3}{4}$ inch, \$7.50; 1 inch, \$10.50; 1 $\frac{1}{4}$ inch, \$14.75; 1 $\frac{1}{2}$ inch, \$18.50; 2 inch, \$26.

RANGE BOILERS—Still another advance of \$1 is to be noted in this line. We quote as follows: Galvanized, 30 gals., \$9; 35 gal., \$10; 40 gal., \$11. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Business is only moderate. We quote: $\frac{1}{4}$ in., \$6.90; 5-16 in., \$4.40; $\frac{3}{8}$ in., \$4; 7-16 in., \$3.80; $\frac{1}{2}$ in., \$2.75; $\frac{5}{8}$ in., \$3.55; $\frac{3}{4}$ in., \$3.45.

SHEET ZINC—Trade is fairly good at 8 $\frac{1}{4}$ c. for cask lots and 8 $\frac{1}{2}$ c. for small lots.

SPELTER—The demand is moderate.

outside markets are unsettled and weak at 7 $\frac{1}{2}$ to 7 $\frac{3}{4}$ c. per lb.

SOLDER—Trade is active. We quote: Half and half, 17c.; refined, 16 $\frac{1}{2}$ c.; wiping, 16c.

ANTIMONY—Business is quiet, with prices steady at 11 to 11 $\frac{1}{2}$ c. per lb. for Cookson's.

PAINTS AND OILS.

Towards the middle of June the jobbers in paints and colors begin to look for a break in the rush of business which may be said to have run uninterruptedly, this year, since the first of February. However, notwithstanding the excessive heat, which seems to be general throughout Ontario, there is no pause in the steady outflow of well-assorted orders, and all the grinders and color-makers are well engaged in every department. The varnish trade is particularly brisk, the demand for finishing in the beautiful, natural woods of Canada being almost universal. Quotations on varnishes and japans are far too low in view of the present prices paid for turpentine and the better class of varnish gums, and a movement having for its object the putting of this brand upon a more satisfactory basis would be gladly welcomed. A rise of 2c. in gum shellac quotations is noted this week. The quotations upon dry red and white lead keep remarkably steady, and the present importations into Montreal and the Dominion generally are heavier than ever known before. Notwithstanding the large arrivals at the various seaports, the consumption is so great that the shipments are quickly absorbed and the popular brands of ground white lead in Canada are meeting with a ready sale at the prices noted. In striking contrast to previous seasons the demand for paris green has been quite sluggish this year. Indeed, it is contended in some quarters that the late severe winter and backward spring have killed off a lot of the potato bugs—that numbers have already been found dead. Perhaps some other parasite is attacking the "varmin" to keep



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

Binder Twine

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.
LONDON, ONTARIO.

up the law of compensation, and yet it is a fact that the Colorado beetle is now appearing in the Northwest, and shipments of paris green have been made there. Local orders are commencing to come in, and trade will likely be better in a few days. Prices are nominally the same as last week.

Ready-mixed paints are going out with a rush, and handy paints seem to be getting more popular day by day. Dry colors are also meeting with a ready sale.

Stains, fillers, and painters' sundries are moving steadily without special feature, and the manufacturers of coach colors in Japan report a good trade, with a promising outlook. Turpentine has been fluctuating in the primary market for some time and a drop of 3c. is noted. Linseed oil, on the other hand, is decidedly firm. Canadian manufacturers have advanced their prices 1c. per gallon this week. Jobbers' prices are, as yet, unchanged since the 2c. rise noted last week. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 24c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 54c.; 4 boiled, 1 to 4 barrels, 57c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 61c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

Local jobbers are in a bad way. The demand is good; their stocks are lighter than they have been in years, and there is no

16 Governments.
85% B.R., 70% U.S. Contracts.
70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETT**," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

ESTABLISHED
1867.

GLOBE FILES AND RASPS ARE STANDARD

Quality unsurpassed.
Prices always right.



Sold by all prominent Hardware Merchants throughout the Dominion.

WALTER GROSE,
Montreal, Selling Agent.

THE GLOBE FILE MFG. CO.,
PORT HOPE, ONT.

word of import orders being sent forward, though they were expected to start a couple of weeks ago. Last year many shipments had arrived here at this time. This year they cannot get here by the middle of July. We quote: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto, Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

A general firmness prevails. Heavy copper is 1c. per lb. dearer. Stove cast and No. 1 wrought scrap iron have advanced 5c. per cwt. We quote as follows: Agricultural scrap, 50c. per cwt.; machinery cast, 55c. per cwt.; stove cast scrap, 40c.; No. 1 wrought scrap, 50c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 14c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 45 to 50c. per 100 lb.

PETROLEUM.

There is little doing. Prices are unchanged. We quote in barrels, Toronto, as follows: Canadian, 14c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

MARKET NOTES.

Gum shellac is 2c. dearer. Turpentine has declined 3c. Black and galvanized pipe are dearer. Range boilers have advanced another \$1 each.

Bright coke plates are 20 to 50c. per box dearer.

Quotations on "Gordon Crown" galvanized iron have been advanced 25c.

Stove cast and No. 1 wrought scrap iron are 5c. per cwt. dearer. Heavy copper scrap has advanced 1c.

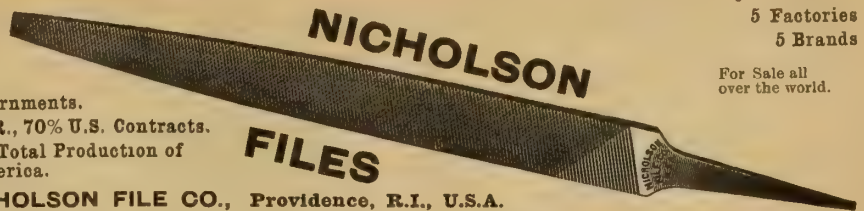
J. S. Bennett, inventor of Bennett's patent hardware boxes, has begun the manufacture of them in Toronto under his own superintendency.

76 800 Daily Production

5 Factories

5 Brands

For Sale all
over the world.



The offices and warerooms of the Toronto branch of The McClary Manufacturing Co., Limited, London, Ont., have been removed to Nos. 14 to 18 Bay street.

CATALOGUES, BOOKLETS, ETC.

KITCHEN WISDOM.

Last summer The Gurney-Tilden Co., Limited, Hamilton, offered \$155 in prizes for the best five short essays descriptive of "Souvenirs" with aerated ovens, and their works. The competition closed on December 1, and the prizes were distributed during January last. Two of the essays were considered so good that The Gurney-Tilden Company have published a beautifully-printed little booklet, entitled "Kitchen Wisdom," containing them and a short legend in poetry, which deals with the value of the "Souvenir" range. This booklet is likely to excite considerable interest in the firm's aerated oven.

STRIKING SIGNS FOR THE STORE.

The North Bros. Manufacturing Co., manufacturers of "Yankee" tools, etc., Philadelphia, have gotten up, for the use of hardwaremen handling these goods, a set of signs, enameled, embossed and printed in four colors. Each sign, though but 4½ by 10 inches in size, gives a full-size view of one of these tools, which, combined with the artistic design of the sign, makes the set one of the most striking that has been offered to the trade. Hardwaremen handling "Yankee" tools can secure the set, postpaid, by writing to The North Bros. Manufacturing Co., Philadelphia.

GAS ENGINE CATALOGUE.

The Goldie & McCulloch Co., Limited, Galt, Ont., have issued a beautifully printed little booklet, introducing their "Model" gas and gasoline engine. The simplicity, efficiency, and general excellence of the engine are so well represented in this work that all hardwaremen should get copies to show their farming customers the value this engine would be to them for many purposes.

TECHNICAL EDUCATION IN CANADA.

TECHNICAL education as a means of inducing greater skill in the industrial arts is meeting with an increasing number of advocates in all commercial countries. While in Canada it has not received the attention it has in certain other countries, Germany particularly, yet the efforts put forth in Canada in this direction, and the results that have been achieved, show that this country has by no means been asleep in regard to this matter.

In the council room of the Toronto Board of Trade is an exhibit of some of the specimens of work done by pupils in the technical schools of Toronto, Ottawa, Hamilton and Whitby. Covering the four walls of the room are pen-and-ink sketches, water-color designs for carpets, linoleums, cathedral windows, public and private buildings, drawings of engines from models, etc. On the long table which adorns the council-room are specimens of modeling in clay, wood carving and painting on china. The exhibit is most creditable, and those who have not yet seen it should make an effort to do so.

The exhibit was opened on Tuesday, when a convention representing the different boards of trade in Ontario was held in the rotunda of the Board of Trade building for the purpose of discussing the question of national technical education. President Kemp occupied the chair.

The chairman, referring to technical education, said that in Canada they seemed to have

LOTS OF MATERIAL

and machinery for turning out doctors, lawyers and professional men, but when it came to the practical work of equipping those who desired to follow an industrial calling they seem to be sadly deficient.

Mr. H. Cockshutt, of Brantford, said technical training was a necessity in Canada at the present time as much as in any country in the world, and no time should be wasted in grappling with the subject. In Brantford they had considered the question from several aspects, including the desirability of introducing it as an adjunct to public and separate school elementary training; the desirability of establishing two or more purely technical central schools for the Province, and technical night schools for mechanics, free of charge. As regards the ways and means, they held that the responsibility rested with the Government.

Hon. Geo. W. Ross followed. He said that the young people of the country were disposed to prepare rather for the professions than for industrial pursuits. He did not know that the schools were altogether to blame for this; the social conditions had, he

thought, a great deal to do with it. He referred to the provision in the School Act giving boards of trustees the option of introducing manual training in the schools, and agriculture in the case of rural schools. The city of Kingston was the only case where the former provision had been taken advantage of. There were only very few instances where rural school trustees had ordered the teaching of agriculture in the sense that it could be taught in schools. He now proposed to take

STRONGER MEASURES,

if Parliament would assist him, and he believed they would, and make the teaching of agriculture in such schools compulsory. The optional teaching of domestic science had only been taken advantage of in isolated cases. The system of apprenticeship, once so generally followed, had almost ceased to exist, and there could be no doubt that many men and women in Canada were entering trades and callings for which they were hardly fitted by their training. In Britain and old-world countries a greater amount of skilled labor was being employed than ever before, labor trained not only by experience in workshops, but in technical schools. This had not been reached without heavy expenditure. The city of Berlin alone spent 200,000 marks annually for such training, and Britain £1,500,000 sterling directly as a nation, besides the amounts paid by municipalities.

While dealing with this point, Mr. Ross said that Canada exported a vast quantity of raw material which should be manufactured in Canada, and imported goods which should be made in the country from the material so exported. In the last 20 or 30 years, he said, thousands of Canadians had been compelled to seek work in the United States. But increase in manufacture from raw material,

SOUND TECHNICAL TRAINING

to workmen, and education in agriculture would go a long way to put a stop to this. Dealing then more particularly with the subject of technical training, he laid down the principle that it should be based on a first-class elementary education. Up to a certain point, the training in Canada went as far as that of Germany, and there halted. He thought that when a boy of fifteen or sixteen years of age had passed the public school course he should be passed on to the technical school, there to study the elements of all branches that contribute to the industrial wealth or education of the country. That would be the first step in the direction of the end desired to be reached.

A technical school in Toronto, to meet

the wants of the people of the county, should be largely under local control. Such schools of necessity betook largely of their local surroundings. It might be under the management of the board of trade or a joint committee of the city council and board. It should be aided by the Local Government, and he had no hesitation in saying that such a school would be aided by the Local Government. In Hamilton, a manual

TRAINING SCHOOL, FOR GIRLS

particularly, was being aided to the extent of \$1,500. What amount would be given to the Toronto school he could not say, but it would be reasonable and proper. Above all things, they would require at the head of such a school a broad-minded, practical man, who thoroughly understood the theory and practice of technical schools. The fact that they would have to look abroad for such a one and perhaps for two or three assistants, should be no barrier to the project. Money should be carefully but freely expended in equipment; they could not afford to starve such an institution. On such lines as these he believed they could establish a system of schools that would be a credit to the Province and a great aid in building up its industries. The Education Department would, he hoped, be able to co-operate with the board of trade and city council so far as a Toronto school was concerned, and thus lay the foundation for the system of technical schools which the Province and country needed.

Mr. C. Ross, of Ottawa, deplored the lack of industrial training in Canada. No one, he thought, doubted the necessity of it, but what they were chiefly concerned about was the method of commencing the work. So far as he was personally concerned, he held that the system should be a national one. He referred to Belgium and Switzerland as countries whose prosperity was due, in a large measure, perhaps wholly so, to technical training. During the course of his remarks he expressed the opinion that the large influx of foreigners into Canada would result in more evil than good to the country.

Mr. Preston, of Brantford, did not think the question was one for the Dominion. They would accomplish much more in far less time by taking the question up in a Provincial way. In conclusion, he asked Hon. Mr. Ross if the Government were prepared to give financial aid to school boards, municipalities, or boards of trade who undertook to establish a training or technical school; whether the Government would give aid to technical night schools, and on what basis such aid could be given?

Hon. Mr. Ross replied that he would not, and he did not think the Government

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Special June Bargains.

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Fitted with Dunlop Tires and Garford Saddles. Guaranteed by us to be absolutely perfect. Lamps, Bells, Cyclometers, Saddles, etc. Cycle Catalogue and prices on application.

CAVERHILL, LEARMONT & CO., MONTREAL

would support any system which did not provide for night schools. The other questions he had answered, so far as he was able, in his address.

Mr. R. Y. Ellis suggested that the meeting appoint a representative committee, who should discuss the question particularly in regard to ways and means. A further general meeting could then be held, and some action taken on the committee's report.

Mr. John Hoodless, of Hamilton, expressed the opinion that technical training should be commenced in the public schools, along with the academic branches of education. Such a course had been found most beneficial in the United States schools.

Principal A. W. Burt, of Brantford, was opposed to any idea of separating the technical from the academic training. He was heartily in favor with the proposal for technical education. The present high school system, he considered, was not very helpful in the way of aiding pupils to follow industrial pursuits.

The following resolution was carried: Moved by Mr. Burton, seconded by Ald. Lamb: "That this meeting most heartily endorses the movement in favor of a broader and more thorough technical training in all its branches in this country, and pledges itself to forward the movement by all means in its power, and that the chairman do appoint a small committee as a nucleus." The chairman appointed the following committee: Messrs. J. D. Allan, W. H. Burton, Ald. Lamb, A. M. Wickens, T. A. Hastings, Toronto; T. H. Preston, Brantford; W. F. Cockshutt, Brantford; John Hoodless, Hamilton; C. Ross, Ottawa; O. G. Anderson, Woodstock.

CANADIAN PRODUCTS WANTED.

The London, England, representative of **HARDWARE AND METAL** reports that the following were among the inquiries concerning Canadian trade, received at the Canadian Government Offices in London during the week ending May 19:

A firm of fish and poultry salesmen in the Midlands are desirous of opening up trade with Canadian exporters of eggs, turkeys, and frozen salmon.

The London agents for a large Cape firm who ship merino wools to the English and other markets, are desirous of entering into business relations direct with Canadian importers, or to place them in connection with their South African principals.

A firm in Scotland desire to enter into correspondence with Canadian houses shipping cleaned sheep sausage skins.

A Belgian firm of good standing wishes to buy direct from Canadian cheese and canned goods packers.

Another firm in Belgium, who offer good

references, desire to obtain consignments of cheese to sell on commission.

An inquiry has been received for suitable timber cut to size for pyramid butter boxes, sufficient for from fifty to one hundred thousand boxes.

[**HARDWARE AND METAL** will be pleased to forward to destination any information that can be supplied in regard to the above. —The Editor.]

ACETYLENE GAS GENERATORS.

It is not surprising that the use of acetylene gas is increasing when one reads the statements made by merchants and others regarding the satisfaction this light has given them. The "Safety" acetylene gas machines, with Cliff-Wardlaw generators, that have been installed in such stores as Fred. W. Watkins' departmental in Hamilton, have won much praise, not only for these particular machines, but for acetylene gas. The many testimonials that have been received by the manufacturers of these machines, The Safety Light and Heat Co., Dundas, from those who have installed them in residences, stores, factories, or churches, show that they are all they are claimed to be—safe, economical; and productive of a clear, satisfactory light.

TRADE CHAT

A DEPUTATION, headed by Mayor Wilson and Sir John Carling, of London, Ont., interviewed members of the Government on Tuesday, asking for a subsidy for an electric railway from London to Bayfield, on Lake Huron.

D. Maxwell & Sons, manufacturers of farm implements, St. Marys, Ont., have increased the wages of their men 5 per cent.

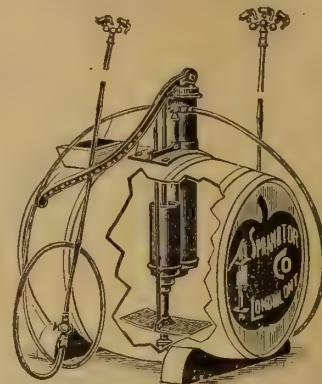
The Metal and Hardware Manufacturers and Merchants' Association of Montreal, at a special meeting, held the other day, passed a resolution expressing the loss the association sustains through the death of the late Lieut.-Col. Caverhill, as well as sympathy for Mr. Caverhill's family.

P. H. Griffin, T. Guilford Smith, of Buffalo; Edgar McDougall, T. J. Dummond, Montreal; Albert D. Bosson, Boston; H. L. Satterlee, New York; Howard J. Wood, Jersey City, and J. Fred Pierson, Ramapo, N.Y., have been incorporated in Trenton, N.J., under the style of "The International Car Wheel Co.," with a capital of \$15,000,000. The company will manufacture car-trucks and wheels.

The following companies have been incorporated: The Gananoque, Ont., Gold Mining Co., Limited; The Guelph, Ont., Iron and Steel Co., Limited; The Baltimore Copper and Gold Mining Co., Limited, London, Ont.; The Atlin Mining Co., of Ontario, Ottawa; The Canadian Sand Paper Co., Limited, and the Expanded Metal and

Fireproofing Co., Limited, Toronto, and the Orion Gold Mining Co., Limited, of Rat Portage, Ont.

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

Toronto, Nov. 9, 1898. Spramotor Company, London, Ont. Gentlemen,—

The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples whereas our neighbors, who used no spraying apparatus, had practically none. Yours truly, W. E. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimsby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

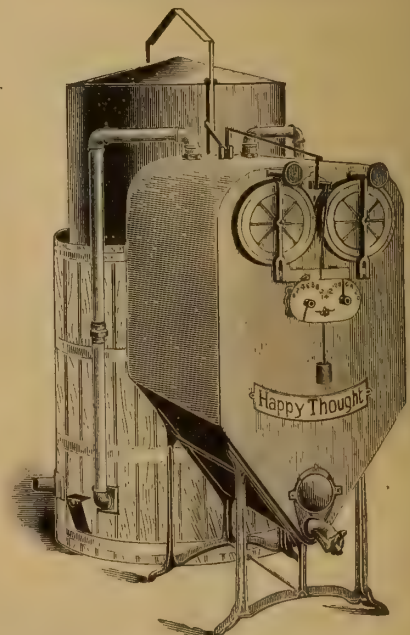
H. L. HUTT, Judges.
M. PETTIT,

If you desire any further information, let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
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Binder Twine



Blue Bank,	Pure Manila,	-	650 ft. to lb.
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Bales Weigh 60 lbs. each.

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Lewis Bros. & Co., Montreal

Agents for:

Hurd's Celebrated Axes.
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HEATING AND PLUMBING

MANUFACTURERS OF PLUMBERS' JOKES.

It can truly be said that this is an age of consolidation. And now we have a combination of the manufacturers of plumbing supplies, writes "Observer" in Metal Worker. Who knows but that in the near future the manufacturers of plumbers' jokes will pool their interests, in which case every joke fished out of the pool will bear the trade mark of the combine. And what more fitting emblem could they adopt as a trade mark than a large spreading chesnut tree? A grand old monarch of the forest that has been bearing burrs and worms for centuries would be about the proper thing to indicate their line of business. The question is frequently asked, "Who writes the plumbers' jokes that are published in the average newspaper?" Some people think it is one of the duties of the sporting editor to write them. Others contend they must be composed by the individual who writes up the obituary column, as they bear all the earmarks of being written by one whose productions are never intended to be laughed at. The jokes themselves rather lead to the conclusion that the conductor of the children's column may be responsible for their constant, persistent and moss covered appearance. But whoever is the author of their being, he certainly possesses the virtue of consistency.

Although there is a sameness about his jokes that has long since grown monotonous, he will not vary them one jot or tittle to win the applause of the reading public. He insists upon it that the plumber must kiss the servant girl every time he enters a house to do any work, no matter what may be her age or color. It is doubtful if even her sex would make any difference. Certainly her previous condition of servitude "cuts no ice" in the frozen pipes which the plumber has been called in to repair. He clings tenaciously to the theory that upon his arrival the plumber's first move is always to shut off all the water from the house and the second is to retire to the quiet of the cellar, there to enjoy a "siesta" until it is time to quit work. The laws of the Medes and Persians do not hew any closer to an established line than he does when he tells of the quantity of liquor that disappears from the house while the plumbing is undergoing repairs. Indeed, if we are to believe one-half that this enterprising joke writer tells us the serpent that tempted Eve in the Garden of Eden was nothing more nor less than a plumber, who was

crawling around under the house, pretending to be looking for leaks but in reality in quest of apple juice.

He then tells us, this joke writer in language all his own, how the plumber abuses the lady of the house when she falteringly inquiries how much longer it will be necessary for her to listen to his swearing and dodge his tobacco "spit," always studiously overlooking the fact on those rare occasions when the plumber does "sass back," it is simply a case of the worm turning.

These jokes, like scenes in real life, are always brought to a close by the presentation of the bill. And it is right here that the joke writer gets in his fine work. So vigorously has he pounded away at this particular point, that he has succeeded in making many converts who look upon the plumber as an extortionist, and he is pretty generally "cussed" the year round, except during the summer months, when the joke writer allows him a vacation, while the ice man is brought forward to do duty in the joke column. As for the joke writer himself, he never takes a vacation.

BUILDING PERMITS ISSUED.

Building permits have been issued in Toronto to Mrs. Mary Philips for a two-storey and attic dwelling near College street, on the west side Delaware avenue, to cost \$2,400; to J. Morris, for three attached two-storey and attic residences on the north side Arthur street, near Bellwoods avenue, to cost \$6,000, and for two brick-cased houses on the same street, to cost \$1,000; to Geo. Weston, for a two-storey brick and iron bread factory on the northeast corner of Phoebe and Soho streets, to cost \$15,000; to W. Morden for a pair of two-storey and attic brick residences, near Tyndal avenue, on the south side Huxley street, to cost \$4,000.

Building permits have been issued in Brantford, Ont, for the following: George Watt, jr., brick residence on north side Northumberland, to cost \$5,000; Joseph Bowes, brick residence on west side of William street, to cost \$1,500; Joseph Broadbent, brick residence on east side Murray street, to cost \$1,000; John Callis, brick oven, on west side of Albion street, to cost \$350; George Smith, brick residence on north side of Oxford street, to cost \$800; John F. Ingleby, brick residence on south side Port street, to cost \$600; Charles Page, frame cottage on west side Eagle avenue, to cost \$450; Frank Leeming, brick resi-

dence, on south side of Dufferin, to cost \$4,500; Starkey Whitaker, brick residence on north side of Chatham street, to cost \$2,800; Henry Simpson, brick residence on west side of Park avenue, to cost \$1,225; Joseph Davis, brick residence on south side of Mary street, to cost \$575; F. B. Shaver, brick addition on south side of Palace street, to cost \$20; J. T. Fair & Co., brick addition to factory on south side Colborne street, to cost \$225.

The building permits issued during May in Hamilton reached a total value of \$36,260, as compared with \$46,085 in the same month last year, a decrease of \$9,825. A good start has been made already for June, permits having been granted for new brick shops for The Sawyer-Massey Co., to cost \$15,000, and for alterations to Central Presbyterian church, to cost \$7,974.

Building permits have been issued in London to Wm. Gray for the erection of a veneer cottage on Edward street, between Bruce and Elmwood avenue, to cost \$1,400; Anthony Irwin, 96 Wharncliffe road, for a storey and a half brick veneer residence on Bruce street, between Wharncliffe and Cynthia; John G. Orchard, York street, for a two-storey residence on the corner of Victor and Wharncliffe.

PLUMBING AND HEATING NOTES.

Winnipeg is calling for tenders for the electric wiring of the various municipal buildings, which will be lighted from incandescent lamps from the city's electric lighting plant.

The Great West Life Insurance Company has bought the three-storey building and the lot adjoining the new Bank of Commerce building on Main Street, Winnipeg, and, it is said, intend erecting a new store front and modernizing the building generally.

The National Steam and Hot Water Fitters of the United States are meeting in convention in Buffalo, N.Y., this week. Messrs. Jos. Wright, Wm. Mansell, and W. J. Maguire, of Toronto, took in the convention.

THE CLAYTON AIR COMPRESSORS.

The increasing popularity of air compressing machinery because of its efficiency and economy will make catalogue No. 10, which has been issued by The Clayton Air Compressor Works, Havemeyer building, New York, of much interest to plumbers. This booklet contains fully illustrated descriptions of the various types of air compressing machinery made by this firm; also

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

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NEW YORK TIRE CO. - - Toronto, Ont.

much information that will be of value to users of this class of machinery. It would be well to write for a copy of this catalogue.

TORONTO'S MILLION DOLLAR HOTEL.

To a representative of HARDWARE AND METAL, Æmilius Jarvis, one of the promoters of the proposed \$1,000,000 hotel for Toronto, in reply to a request for the name of the architect, said:

"We have not yet chosen an architect. Sketch plans were prepared by George R. Harding, of New York, but no building will likely be done on these plans. So far, no plans have been accepted; consequently, no architect has been chosen. There are so many things to consider, so many difficulties to be surmounted, that we will not likely settle on any plans for a little while yet."

PLUMBING AND HEATING CONTRACTS.

The John Ritchie Plumbing and Heating Co., Limited, have the contract for plumbing and heating in a large residence on Sherbourne street for A. A. Allan.

Burrow, Stewart & Milne, Hamilton, have the contract for putting new furnaces in the central Presbyterian church, Hamilton.

WINNIPEG ITEMS.

It is reported that 132 feet on the west side of Princess street, lying between the Princess block and Sutherland & Campbell's establishment, has been purchased by an English capitalist at a figure in the neighborhood of \$10,000.

It is understood that Gault Bros., Limited, of Montreal, have purchased the site on the corner of Bannatyne and Arthur streets, known as the old Bethel church property. The price was \$160 a foot.

It is understood that the Canadian Rubber Company intend to erect a large block on the corner of Princess street and McDermott avenue, with 100 feet frontage on McDermott avenue and 50 feet on Princess.

The McCormack Harvesting Company intend erecting a large warehouse on the north-west corner of Main street and Point Douglas avenue, just north of the C.P.R. They have purchased a site 66 x 165 feet, for which they paid \$8,250.—Free Press, June 3.

A board of trade has been organized at Elkhorn, Man. The officers are: President, F. W. Clinghan; vice-president, C. F. Travis; secretary-treasurer, G. Silvester. A pamphlet, including a map of the district adjacent to Elkhorn, and description of the land in five townships, is to be published for advertising purposes. A large hotel and other buildings are being erected there at present.

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Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

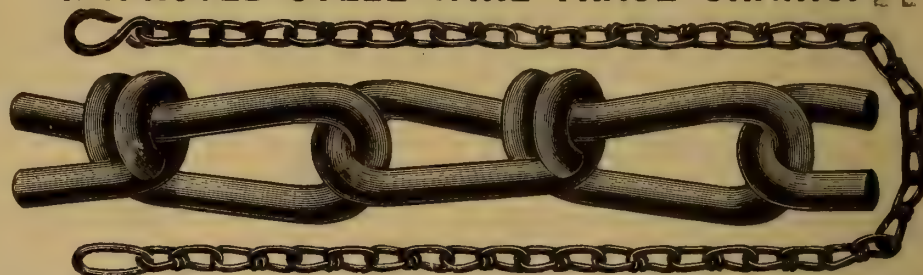
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IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

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is being daily perpetrated on all manufacturers.
The robber's name is Friction.

If you wish to arrest him, employ

Syracuse Babbitt Metal

A most persistent worker. COOL under most trying circumstances. No noise. No undue excitement.

CHARGES MODERATE.

For terms and particulars, write

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Sole manufacturers of Columbia Phosphor Tin.

Factories, SYRACUSE, N.Y., MONTREAL, CAN.

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TIRE UPSETTERS
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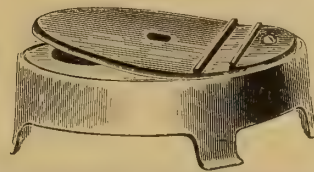
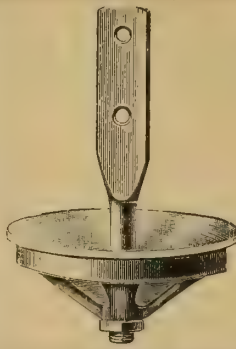
Some machines sold as Upsetters will not. Perhaps you make as much money on the sale of a useless Upsetter as on a good one, but your customer does not. He don't want a machine because it is called an Upsetter; he wants a machine to upset tires. Sell him one of ours.

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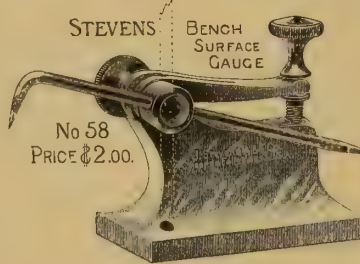
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Worth its cost as a Fertilizer. Does not injure the vines.

300 pounds net in every barrel. Price, f.o.b. Paris, \$2.75 per barrel,
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Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets,
Skipping Ropes, Jute, Hemp and Flax Twines.**

THE PROSPECTIVE SUPPLY OF TIN.

THE outlook for tin is just now a matter of more than ordinary importance, as the manufacture of tinplate is becoming a more widespread industry than heretofore. A special correspondent of The New York Commercial, writing from Cardiff, Wales, has this to say of the situation as prospectively defined:

The prospects of increased production of tin and tin-bearing properties in Australasia, together with a maintenance of high prices, are good. But, obviously, we must look first to those countries which are already the leading producers, and which have their mines, alluvial and others already developed. The chief of these producers is the Straits Settlements, which account for 65 per cent. of last year's statistical aggregate. About the future, Katz & Co., in a recent report say: "Extremely diverse views continue to be held by well-informed parties. One side is convinced that for some time to come the Straits (the only producer likely to vary much in the near future) will not give us enough, and that a scarcity is possible, while others anticipate the reverse." Conditions are, in some respects, peculiar on these fields, and the action of the authorities in compelling systematic working has had its effect on the output. But the high price is the key to the whole situation. There is no question of a failure of the "black sand"; the mining population is larger, and the prospect of an extra £40 or so per ton profit, affords a stimulus to enhanced production.

The metal is found in the whole of the Malay Peninsula, where mining is confined to the alluvials. Lodes found near the mountains, as yet, have hardly been worked at all.

A number of English, German and other companies have been established in the peninsula, in recent years, and have made some progress in the introduction of better apparatus than that affected by the Celestials for the recovery of the stream tin; but the latter remain the chief factors in the situation, and their methods do not tell for the best possible results.

The deposits of Banca and Billiton, which are islands lying off the east coast of Sumatra, are also mainly alluvial, although some lodes have been worked. The average overburden is 25 feet to 35 feet thick.

Tin has been found as far east as the Island of Floris, and it is the universal opinion among experts that new fields will unquestionably be located not only in the Peninsula, but within that belt of countries or islands which lie between Australia on the south, and the Malay Peninsula on the north, known as the Sunday, and their ad-

jacent islands. So far, however, no considerable production can be traced from any of the latter districts, outside of Banca and Billiton.

In Lower Burma, tin mines form a portion of the great stanniferous belt, stretching across the backbone of the Malay Peninsula. Workings are located at four main centres. The alluvial tin is derived from these lodes, and is deposited in the form of a coarse sand, mingling with the gravels in the river valleys, and on the lower slopes at the foot of the granite hills. The industry was depressed in Burma for many years, but has made some progress in the right direction, and a number of Chinese miners have been imported from the Straits Settlements.

In regard to the Cornish product it is a question as to whether any considerable increase in yield is probable.

Production has gone down for some years past, being estimated at 4,400 tons of metal for last year, against 4,452 tons in 1897, 4,837 tons in 1896, 6,648 tons in 1895, and 8,327 tons in 1894, the output now being not much more than half the total of four years ago. The annual Mineral Statistics for the United Kingdom say that no alluvial deposits are worked at the present day; the so-called "stream works" are merely dressing floors erected for treating the muddy water flowing away from some of the mines, which still carries enough tin ore in suspension to be worth treating. There are now less than twenty mines yielding more than 100 tons of dressed ore per year, and the Dolcoath is responsible for 16 per cent. of the total output. There is no doubt that the high prices have led to greater mining activity in the Dolcoath, Levant and other mines.

LAMPS OF ANCIENT ROME.

When the Romans invaded Britain and settled in many quarters, says an exchange, they used small clay lamps, some open like a shell, others covered, with only a small hole left to allow of the lamp being filled with oil. Open clay cups with two hollows were also common, one hollowing being provided for the wick, the capillary attraction drawing the oil from the other.

Many beautiful bronze lamps are discovered in the ancient Roman camps, illustrating by these simple domestic articles the perfection to which art had been carried when nothing was considered too ordinary to be beautiful. Dr. Hill Burton, referring to the beauty of design and decoration on the commonest articles of Roman manufacture, says: "They afford traces of decoration sufficient to show an elevation in the ornamenting of common articles which the pottery of the present day is only now reach-

ing and that rather by slavish imitation than by original development." The same historian also records that "a good many terra cotta candelabra or lamps have been found of that peculiar form which has in a manner become canonical through its matchless grace and simplicity, and has hence, ever since it existed in its purity, been contorted into ornamental service."

The origin of the cruise has been found among Roman antiquities, and, strange to relate, this simple lamp appears to have been adopted wherever the Roman settled with his conquering legions—France, Italy and northern Africa producing them with little variation from the Roman originals.

ADDING NEW LINES.

What is or is not legitimate in the way of merchandise for the hardware dealer to handle is becoming an open question in an age where everyone is trying to get all he can; where, in fact, as it has been said, "it is more blessed to get than to give," says Stoves and Hardware Reporter. The union of many different lines of goods under one roof apparently rouses the animosity of many specialty houses, and yet it is observed that these conglomerate stores are the ones which carry off the lion's share of the trade. The convenience which they afford people in doing their purchasing cannot very well be overlooked even by those who are most opposed to them. Expansion, which extends to almost everything which is capable of it, applies also to the extension of different lines in the store. The hardware dealer has added crockery, glassware, lamps, linoleums and bicycles, and, in some instances, leather goods, furniture, vehicles and agricultural implements to his stock, and the question now is what will be added next? Will it be chinaware for the table, as well as ornaments in metal ware? Many of the latter, which may be said to come within the hardware dealer's province, are now kept in stock by some merchants, and may be handled advantageously by a great many more. These comprise ornaments of bronze, brass and fancy combinations of metals.

MADE IN GERMANY.

Not so long ago the legend "Made in Germany" was looked upon as a term of reproach, and a description which considerably discounted the value of any goods to which it could correctly be applied. Now, however, the phrase, so far from being regarded as a drawback, seems to be looked upon by a certain class of buyers as a positive recommendation, and the result is inquiries are constantly being received for this, that, and the other article of German make.—Ironmonger.



PENITENTIARY SUPPLIES.

SEALED TENDERS addressed "Inspector of Penitentiaries, Ottawa," and endorsed "Tender for Supplies," will be received until Tuesday, 20th of June, inclusive, from parties desirous of contracting for supplies, for the fiscal year 1899-1900, for the following institutions, namely:

Kingston Penitentiary.
St. Vincent de Paul Penitentiary.
Dorchester Penitentiary.
Manitoba Penitentiary.
British Columbia Penitentiary.
Regina Jail.
Prince Albert Jail.

Separate tenders will be received for each of the following classes of supplies:

1. Flour (Canadian Strong Bakers').
2. Beef and Mutton (fresh).
3. Forage.
4. Coal (anthracite and bituminous).
5. Cordwood.
6. Groceries.
7. Coal Oil (in barrels).
8. Dry Goods.
9. Drugs and Medicines.
10. Leather and Findings.
11. Hardware.
12. Lumber.

Details of information, together with forms of tender, will be furnished on application to the Wardens of the various institutions.

All supplies are subject to the approval of the Warden. All tenders submitted must specify clearly the institution or institutions, which it is proposed to supply, and must bear the endorsement of at least two responsible sureties.

DOUGLAS STEWART,
Inspector of Penitentiaries.

Department of Justice,
Ottawa, May 27th, 1899.

(23)



STEEL LETTERS and FIGURES.

If your Jobber does not keep our steel letters and figures send to us direct, we make everything in steel stamps.

HAMILTON STAMP & STENCIL WORKS

Hamilton, Ont.

D. F. Jones Manufacturing Co. Limited, of Gananoque, Ont.

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND



WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Best Crucible Steel.

MCCLELLAN FILES

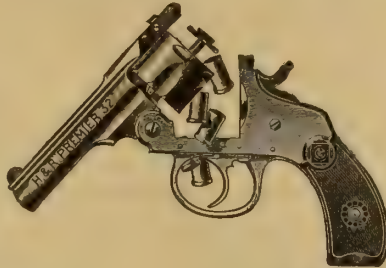
Fully Warranted



Sold by CANADA HARDWARE CO., LIMITED, MONTREAL, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of — **High Grade REVOLVERS**

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO., Gooderham Building, **Toronto**



Geo. D. Wood & Co.

WINNIPEG, MAN.

Importers of and Dealers in

**SHELF AND
HEAVY**

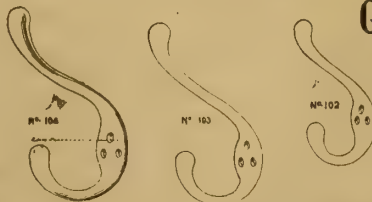
**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now complete in seasonable lines. Prompt shipment.

Letter orders receive special attention.

Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.



THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220 1/2 Board of Trade, MONTREAL.

Nobles & Hoare.

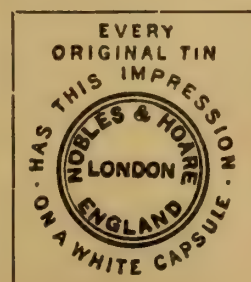
CORNWALL ROAD STAMFORD STREET.

LONDON, ENG.

Manufacturers of

HIGH-CLASS VARNISHES ONLY

Which can be obtained direct from the works or from the principal Color Dealers in Canada.



JOSEPH RODGERS & SONS

SHEFFIELD, ENGLAND.

Limited

Each blade of our Goods bears the exact mark here represented.

JAMES HUTTON & CO., MONTREAL

SOLE AGENTS
IN CANADA.

CURRENT MARKET QUOTATIONS

These prices are for such quantities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—		
56 and 28 lb. ingots, per lb.	0 29	0 30
Straits	0 28½	0 29

Tinplates.

Charcoal Plates—Bright.	Per box.	
M.L.S., equal to Bradley.	\$5 50	
I.C., usual sizes	6 75	
I.X., "	8 00	
R. & Co.—		
I.C.	5 50	
I.X.	6 75	
I.X.X.	8 00	
Famous—		
I.C.	5 50	
I.X.	6 75	
I.X.X.	8 00	

Raven & Vulture Grades—		
I.C., usual sizes	4 00	
I.X.	4 75	
I.X.X.	5 50	
I.X.X.X.	6 25	
D.C., 12½x17	4 25	
D.X.	4 25	
D.X.X.	6 25	

NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—		
I.C., usual sizes	3 40	
I.C., special sizes, base..	3 50	
20x28.	7 00	
Charcoal Plates—Terne.		
Dean or J. G. Grade—		
I.C., 20x28, 112 sheets	6 75	
I.X., Terne Tin	8 25	

Charcoal Tin Boiler Plates.		
Cookley Grade—	Per lb.	
X.X., 14x56, 50 sheet bxs	0 05¾	0 06
" 14x60 "		
" 14x65 "		
Tinned Sheets.		
72x30 up to 24 gauge.	0 06	0 06¾
" 26 "	0 06¾	0 07
" 28 "	0 07½	0 07¾

Iron and Steel.

Common Bar, per 100 lbs	1 91	1 95
Refined	2 20	
Horse Shoe	1 85	1 90
Hoop steel, 1½ to 3 in. base,		
extra for smaller sizes	2 60	
Swedish	4 00	4 25
Sleigh Shoe Steel " base	2 60	
Tire Steel	2 50	
Machinery	2 65	
Cast Steel, per lb	0 10	0 14
Toe Calk Steel	2 95	
Toe Weight Steel	6 10	
Thos. Firth & Sons' Cast Steel	0 10½	0 11
Russian Sheet, per lb	0 10½	0 11
Tank Plates, 1-5 and thicker.	2 00	2 25
Boiler Rivets	4 50	5 00

Boiler Tubes.

1½-inch	0 11	
2 "	0 12	
2½ "	0 14	

Steel Boiler Plate.

¾ inch	3 25	
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3-16 inch	3 40	
¾ inch and thicker.	3 25	

Black Sheets.

18 gauge	2 40	
20 "	2 50	
22 to 24 "	2 55	
26 "	2 65	
28 "	2 85	

Canada Plates.

All dull, 52 sheets	2 50	
Half polished	2 60	
All bright	3 10	

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch,		
\$3.10; ½ inch, \$3.10; ¾ inch, \$3.40; 1 inch,		
\$4.35; 1½ inch, \$6.50; 2 inch, \$8.00; 2½ inch,		
\$11.00. 2½ to 6 inch, discount 60 p.c.		
Galvanized, ½ inch to ¾ inch, \$1.75; ¾		
inch, \$7.00; 1 inch, \$9.85; 1½ inch, \$14.00;		
1½ inch, \$17.00; 2 inch, \$24.50.		

Galvanized Iron.

G.O. Comet.	Amer.	Head.
16 gauge	3 85	4 00
18 to 24 gauge	4 00	4 25
26 "	4 25	4 50
28 "	4 50	4 60
Less than case lots, 25c. per 100 lb. additional		

Chain.

Proof Coil, 3-16 in., per 100 lbs		
" ¼ "	6 91	
" 5-16 "	4 40	
" ¾ "	4 00	
" 7-16 "	3 80	
" ¾ "	2 75	
" ¾ "	3 55	
" ¾ "	3 45	
Trace, per doz. pairs.	3 60	5 90
Jack chain, iron, single, per		
doz. yards.	0 13	0 50
Jack chain, double, per doz.		
yards	0 15	
Jack chain, brass, single, per		
doz. yards	30	10

Copper.

Ingot.		
English B. S., ton lots	0 19	0 19½
Lake Superior		

Bolt or Bar.		
Cut lengths, round, ½ to ¾ in.	0 23	0 24
" round and square		
1 to 2 inches.	0 23	0 24

Sheet.

Untinned, 14 oz., and light, 16		
oz., 14x48 and 14x60	0 23	0 23½
Untinned, 14 oz., and light, 16		
oz., irregular sizes.	0 23	0 23½
NOTE.—Extra for tinning, 2 cents per		
pound, and tinning and half planishing 3		
cents per pound.		
Tinned copper sheets	0 26	
Planished	0 32	
Braziers. (In sheets.)		
4x6 ft. 25 to 30 lbs. ea. per lb.	0 25	
" 35 to 45 "	0 21	
" 50-lb. and above, "	0 23	
Boiler and T. K. Pitts.		
Plain Tinned, per lb	0 28	
Spun, per lb.	0 32	

Brass.

Roll and Sheet, 14 to 30 gauge, 5 per cent.		
Sheets, hard-rolled, 2x4	0 24	0 25
Tubing, base, per lb.	0 24	0 25

Zinc Spelter

Foreign, per lb	0 07½	0 07¾
Domestic		

Zinc Sheet.

1 cwt. casks	0 08½	
Part casks.	0 08½	

Lead.

Imported Pig, per lb	0 04½	0 04½
Domestic, per lb		
Bar, 1 lb.	0 05½	0 05½
Sheets, 2½ lbs. sq. ft., by roll.	0 05	0 05½
Sheets, 3 to 6 lbs., per sq. ft.,	0 04½	0 05
NOTE.—Cut sheets ½ cent per lb. extra		
Pipe, by the roll, usual weights per yard, lists		
at 7 cents per lb. and 17½ per cent. discount		
NOTE.—Cut lengths, net price, waste pipe		
8-ft. lengths, lists at 7½ cents.		

Shot.

Net list; no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Bar half-and-half	Per lb.	Per lb.
Refined	0 17	0 18½
Refined	0 16½	0 17½
Wiping	0 16	0 17
NOTE.—Prices of this graded according to		
quantity. The prices of other qualities or		
solder in the market indicated by private		
orders vary according to composition.		

Antimony.

Cookson's, per lb	0 11	0 11½
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White Lead.

Pure, Assoc. guarantee, ground in oil,	Per cwt.	
25 lb. irons	6 12½	
No. 1 do	5 74½	
No. 2 do	5 37½	
No. 3 do	5 00	
No. 4 do	4 62½	
Robertson's Chemically Pure	6 12½	
Munro's Select Flake White	6 37½	
Elephant and Decorators' Pure	6 12½	
Brandram's B. B. Genuine	8 12½	
" No. 1	7 25	
Jama genuine	7 20	
" No. 1	6 75	

White Zinc Paint.

Elephant Snow White	0 08	
Pure White Zinc	0 08	
No. 1	0 06	
No. 2	0 05	

Dry White Lead.

Pure, casks	0 04½	
Pure, kegs	0 04½	
No. 1, casks	0 04½	
No. 1, kegs	0 04½	

Prepared Paints.

(In ½, ¼ and 1 gallon tins.)		
Pure, per gallon	1 00	
Second qualities, per gallon	0 80	
Baron (in bbls.)	0 70	
The Sherwin-Williams Paints	1 20	
Canada Paint Co's Pure	1 10	
Robertson's Pure	1 10	

Colors in Oil.

(25 lb. tins, Standard Quality.)		
Venetian Red, per lb	0 07	
Chrome Yellow	0 11	
Golden Ochre	0 06	
French	0 05	
Marine Black	0 09	
" Green	0 09	
Chrome	0 08	
French Imperial Green	0 19	

Colors, Dry.

Yellow Ochre (J. C.) bbls.	1 35	1 40
Yellow Ochre (J.F.L.S.), bbls.		
per cwt	2 75	
Yellow Ochre (Royal), per		
cwt	1 10	
Brussels Ochre	2 00	
Venetian Red (best), per cwt.	1 80	1 90
English Oxides, per cwt.	3 00	3 25
American Oxides, per cwt.	1 75	1 90

Canadian Oxides, per cwt.	1 75	1 90
Burnt Sienna, pure, per lb.		0 10
Umber,		0 10
do aw		0 09
Drop Black, pure		0 09
Chrome Yellows, pure		0 18
Chrome Greens, pure, per lb.		0 12
Golden Ochre		0 03¾
Ultra marine Blue in 28-lb		
boxes, per lb.	0 08	0 24
Fire Proof Mineral, per 100 lb.		1 00
Genuine Eng. Litharge, per lb		0 07
Mortar Color, per 100 lb.		1 25
James' Gen. Red Lead, 100 lb		0 04¾
Pure Indian Red, No. 45, lb.		0 08
Whiting, per 100 lb		0 50

Paris Green.

250 lb. casks	0 13½	
50 lb. drums	0 15	
1 lb. packages	0 15	
½ lb. "	0 16½	
1-lb. tins.	0 15½	

Sulphate of Copper.

Casks, for spraying, per lb.	0 06	
100-lb. lots, do. per lb.	0 07	

Putty.

Bladders in bbls.	1 80	
Bladders in 100 or 200 lb. kegs or bxs	1 95	
Bulk in bbls., per 100	1 85	
Bulk in less quantities	1 80	
25-lb. tins, 4 in case	2 05	
12½-lb. tins, 8 in case	2 30	
Quotations f.o.b. Toronto—10c. per 100 lbs.		
extra Hamilton, London, Guelph. For quan-		
ties less than 100-lbs., 2½c. per lb.		

Varnishes.

(In 5-gal. lots.)		Per gal.
Carriage, No. 1	1 30	1 40
Extra do.	1 50	1 60
Body Varnish	3 40	3 50
Furniture Varnish	0 50	0 60
Extra do.	1 00	1 10
Denmar Varnish	1 50	
Hard Oil Finish	1 30	1 35
Orange Shellac Varnish	2 00	2 10
White Shellac	2 20	2 25
Rubbing Varnish	2 00	
Brown Japan	0 75	
Elastic Oak	1 20	1 30

Linseed Oil.

Raw, per gal. net.	0 53	
Boiled, per gal. net	0 56	
Outside points 1c. more than above figures		

Turpentine.

1 to 4 barrels, net.	0 63	
Outside points 1c. more		

Castor Oil.

In cases, per lb	0 09	
Small lots	0 10	

Cod Oil, Etc.

Cod Oil, per gal.	0 50	0 55
Pure Olive	1 20	
" Neatsfoot	9c	

Glue.

(In bbls.)		
Common	0 08½	0 09
French Medal	0 12	0 12½
Cabinet, sheet	0 11	0 12
White, extra	0 16	0 18
Gelatine	0 22	0 30
Strip	0 16	0 18
Coopers	0 19	0 20
Al clear	0 09	

HARDWARE.

Ammunition.

Cartridges.		
R. B. Caps. Dom. 50 and 5 per cent.		
Rim Fire Pistol, dia. 45 p. c., Amer.		
Rim Fire Cartridges, Dom. 50 and 5 p. c.		
Rim Fire, Military, net list, Amer.		
Central Fire Pistol and Rifle, 18 p. c. Amer.		

SHAFTING HANGERS PULLEYS

We manufacture and carry in stock ready
for prompt shipment, a full line of Shafting,
Hangers and Pulleys

Especially suited for Creamery and Dairy Work.

Up-to-date goods. Correct prices.
Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office: 74 York St., TORONTO, ONT.

Central Fire Cartridges, pistol sizes, Dom.
30 per cent.
Central Fire Cartridges, Sporting and Military,
Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer.
net list. B.B. Caps, discount 15 per cent.
Amer.
Loaded and empty Shells, "Trap" and
"Dominion" grades, 25 per cent. Rival
and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent.
Primers, Dom., 80 per cent.
Wads.

Best thick white felt wadding, in 3/4-lb
bags. 1 00
Best thick brown or grey felt wads, in
1/2 lb. bags. 0 70
Best thick white card wads, in boxes
of 500 each, 12 and smaller gauges. 0 99
Best thick white card wads, in boxes
of 500 each, 10 gauge. 0 35
Best thick white card wads, in boxes
of 100 each, 8 gauge. 0 55
Thin card wads, in boxes of 1,000
each, 12 and smaller gauges. 0 20
Thin card wads, in boxes of 1,000
each, 10 gauge. 0 25
Thin card wads in boxes of 1,000
each, 8 gauge. 0 60
Chemically prepared black edge grey
cloth wads, in boxes of 250 each—
11 and smaller gauge. 0 70
9 and 10 gauges. 0 90
7 and 8 gauges. 1 10
Superior chemically prepared pink
edge, best white cloth wads, in
boxes of 250 each—
11 and smaller gauge. 1 15
9 and 10 gauges. 1 40
7 and 8 gauges. 1 65
5 and 6 gauges. 1 90

Adzes.
Discount, 33 1/2 per cent.

Anvils.
Per lb. 0 10 0 12 1/2
Anvil and Vice combined
each. 4 50
Wilkinson & Co.'s Anvils, lb. 0 19 0 09 1/2
Wilkinson & Co.'s Vices, lb. 0 9 1/2 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised
list.
Hollow, Stearns, per dozen. 13 00 20 00
Adjustable, Stearns, each. 4 50 6 50
Port-hole, Vaughan's, each. 60 90

AXES.
Splitting Axes. 5 25 5 50
Chopping Axes—
Single List, per doz. 6 00 12 00
Double List, " 11 00 18 00
Beck Axes, 40 and 15 p.c.
Broad Axes, 33 1/2 per cent.

Bath Tubs.
Zinc. 3 90 4 00
Copper, discount 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised
list. Boxing extra.

Anti-Friction Metal.
"Tandem" A. per lb. 0 23
" B. " 0 19
" C. " 0 11 1/2
" Monarch " 0 21
" 2 " 0 15
" 3 " 0 10
" Canadian " 0 08 1/2
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal. " 0 15
Mytic Metal. " 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 p.c. cent.
Nickel, 55 p.c. cent.

Doors.
Gones, Sargent's, discount 50 50 8 00
Peterboro, discount 50 per cent.
Cow.
American make, discount 66 2/3 per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American, each. 1 25 3 00

House.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders', per doz. 7 50 10 00
Blacksmiths', discount 60 per cent.
Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Bits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford, Common, 70 to 79 and 10 per cent.
Perfection, 50 and 10 per cent.
Jennings' Gen., net list.

Car.
Gilmour's, 47 1/2 to 50 per cent.
Expansive.
Clark's, 40 per cent.
Gimlet.

Clark's, per doz. 0 65 0 90
Diamond, Shell, per doz. 1 00 1 50
Nail and Spike, per gross. 2 25 5 20

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 00

Blind and Bed Staples.
All sizes, per lb. 0 07 1/2 0 12

Bolts and Nuts.
Norway Bolts, full square. 70
Common Carriage Bolts, 5-16 & under. 60
" " 3/4 and larger. 55
" " full square. 70

Machine Bolts, all sizes. 60
Coach Screws. 75
Sleigh shoe Bolts. 75
Blank Bolts. 60
Nuts, square. 55
Nuts, hexagon. 40
Tapping Nuts. 70
Tire Bolts. 65 and 10
Store Bolts. 65 and 10

Boot Calks.
Small and medium, per M. 4 50
Small heel, per M. 4 25

Broilers.
Light, dis. 65 to 67 1/2 per cent.
Reversible, dis. 65 to 67 1/2 per cent.
Vegetable, per doz. dis. 37 1/2 per cent.
Henis, No. 8. 6 00
Henis, No. 9. 7 00
Queen City. 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 00 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll. 0 28
Tarred lining, per roll. 0 35
Tarred roofing, per 100 lb. 1 46
Coal Tar, per barrel. 3 75
Pitch, per 100-lb. 0 60
Carpet felt, per 100 lb. 2 25

Hull Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in,
Butts.
Brass.
Wrought Brass, dis. 10 p.c. revised list.
Cast Iron.
Loose Pin, dis. 6 to 60 and 10 per cent.
Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pin, dis. 70 and 10 per cent.
Berlin Bronzed, dis. 70 and 5 per cent.
Gen. Bronzed, per pair. 0 40 0 65

Cards.
Horse, per doz. 0 60 1 00

Carpet Sweepers.
Bissell, per doz. 22 50
World, " 24 75
Daisy, " 24 00
Star, " 18 00
Crown Jewel, per doz. 29 00
Grand Rapids, " 24 00 33 00

Carpet Stretchers.
American, per doz. 1 00 1 50
Bullard's, per doz. 6 50

Castors.
Bed, new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
Nos. 31 and 32, per gross. 8 50 9 50

Cement.
Canadian Portland. 2 65 2 90
English " 3 00
Belgian " 2 70
Canadian hydraulic. 1 00 1 10

Figures are for barrel lots.
Chalk.
Carpenters, Colored, per
gross. 0 45 0 75
White lump, per cwt. 0 60 0 65
Red " 0 05 0 06
Crayon, per gross. 0 14 0 18

Chisels.
Socket. Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warnock's, dis. 40 and 10 per cent.

Churns.
Revolving Churns, metal frames—No. 0, \$3—
No. 1, \$3.25—No. 2, \$3.40—No. 3, \$3.75—
No. 4, \$4.50—No. 5, \$5.90 each. Ditto,
wood frames—15c. each less than above.
Terms 4 months or 3 p.c. off 30 days, f.o.b.

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Axle dis. 65 per cent.

Closets.
Washout, plain. 3 75
embossed. 3 00
Connections. 1 10

Compasses, Dividers, Etc.
American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent. from factory.

Dies.
Hart Mfg. Co. (pipe dies), (Amer. list), dis.
40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis.
per cent.

Door Springs.
Torrey's Rod, per doz. (15 p.c.) 2 00
Coil, per doz. 0 88 1 60
English, per doz. 2 00 4 00

Draw Knives.
Broad's, dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast.
Miller's Falls, per doz. net list.

DRILL BITS.
Morse, dis. 37 1/2 to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz. 0 85 1 70

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Globe File Mfg. Co.'s dis. files, 60 and 10 to
70 per cent.
Black Diamond, 50 and 10 to 60 per cent.
Kearney & Foote, 60 and 10 per cent. to 60,
10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.
Jowett's, English list, 25 to 27 1/2 per cent.
Mechanics' Star & File Mfg. Co. Discount
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Ice Cream.
White Mountain, 1 to 25 qt. 1 35 13 50
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FRY PANS.
Aome, dis. 65 to 67 1/2 per cent.

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Shepard's Queen City, dis. 15 per cent.

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Stanley's, dis. 50 to 65 per cent.

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Winn's, Nos. 28 to 33, each. 1 65 2 40

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Star.
Size
United
Inches.

Per 50 ft. Per 100 ft. Per 50 ft. Per 100 ft.
Under 26. 2 00 3 75 3 20 6 00
26 to 40. 2 15 4 05 3 40 6 65
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51 to 60. 4 75 8 25
61 to 70. 5 10 9 00
71 to 80. 5 50 10 00
81 to 85. 6 10 11 50
86 to 90. 7 25 13 50
91 to 95. 7 50 15 00
96 to 100. 18 00
101 to 105. 20 50
106 to 110. 23 50

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Diamond
Per 50 ft. Per 100 ft.

HALTERS.
Rope, 3/4 per gross. 8 25 8 55
" 1/2 " 9 25 6 50
" 1/4 " 11 00 11 20
Leather, 1 in., per doz. 3 87 1/2 4 00
" 1 1/4 in., " 5 15 5 20
Web, — per doz. 1 87 2 45

HAMMERS.
Nail.
Maydole's, dis. 5 to 10 per cent. Can. dis.
25 to 27 1/2 per cent.

Tack.
Magnetic, per doz. 1 10 1 20
Sledge. 0 07 1/2 0 08 1/2

Ball Peen.
English and Can., per lb. 0 22 0 25

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Axe, per doz., net. 1 50 2 60
Store door, per doz. 1 00 1 50
Chest, per doz. pair. 0 40 2 50

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C. & B., dis. 45 per cent. rev. list.

Hoe.
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American, per doz. 1 00 1 25

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American, per gross. 3 15 3 7
Hammer and Hatchet.
Canadian, 45 per cent.

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Door, 4 and 5 inch, per pair. 0 40 0 50
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Discount, 60, 10, and 5 per cent.

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" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.

Heavy T and strap, 4-in., per lb. 0 05
" 5-in., " 0 01 1/4
" 6-in., " 0 04 1/2
" 8-in., " 0 01 1/2
" 10-in., " 0 04

Screw hook and latch.
3 to 12 in., per lb. 3 75
14 in. up, per 100 lbs. 3 00

Per gross, pair.
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Planter, per doz. 4 00 4 50

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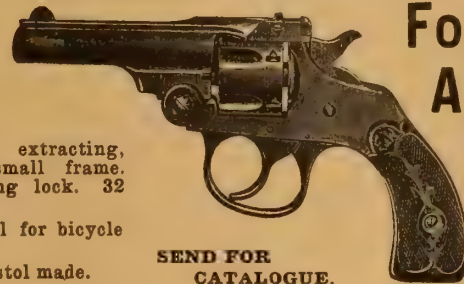
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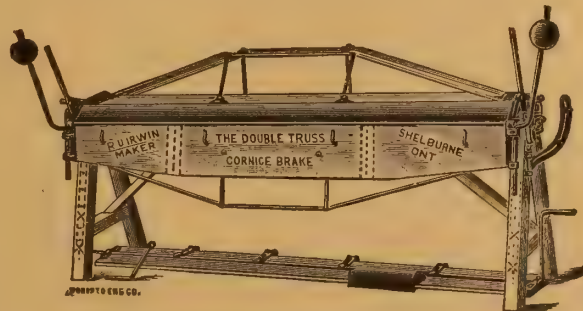
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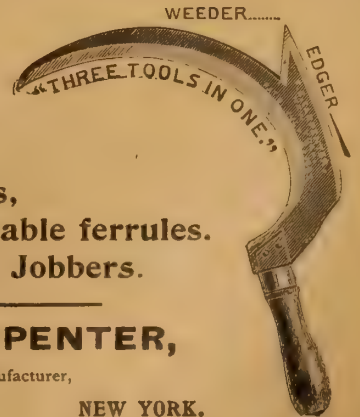
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The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JUNE 17, 1899.

NO. 24



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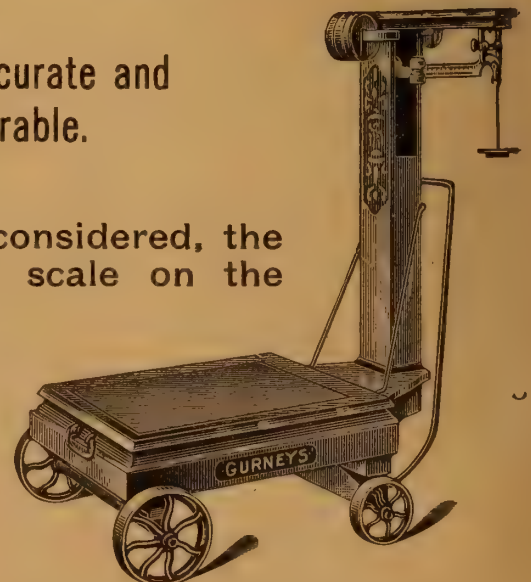
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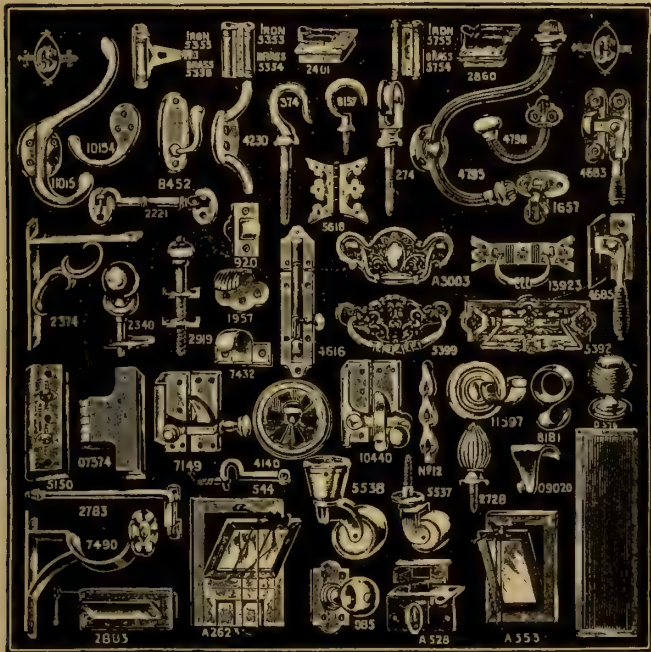


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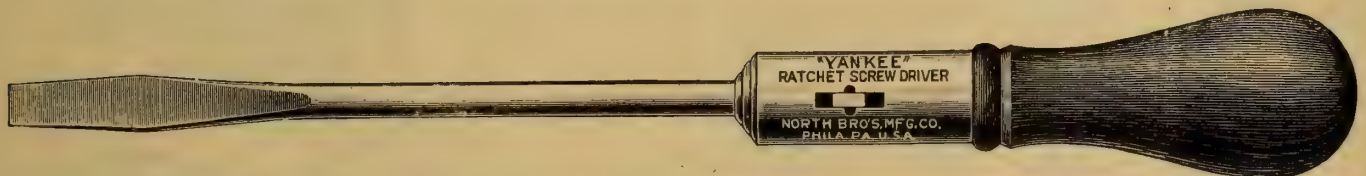
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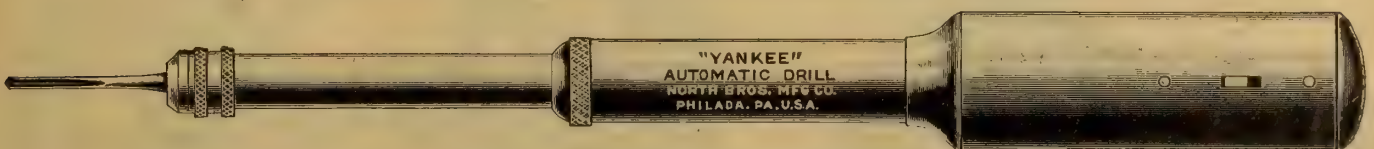
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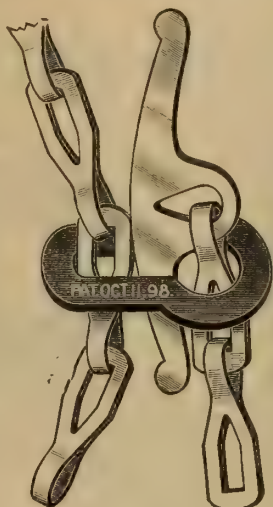
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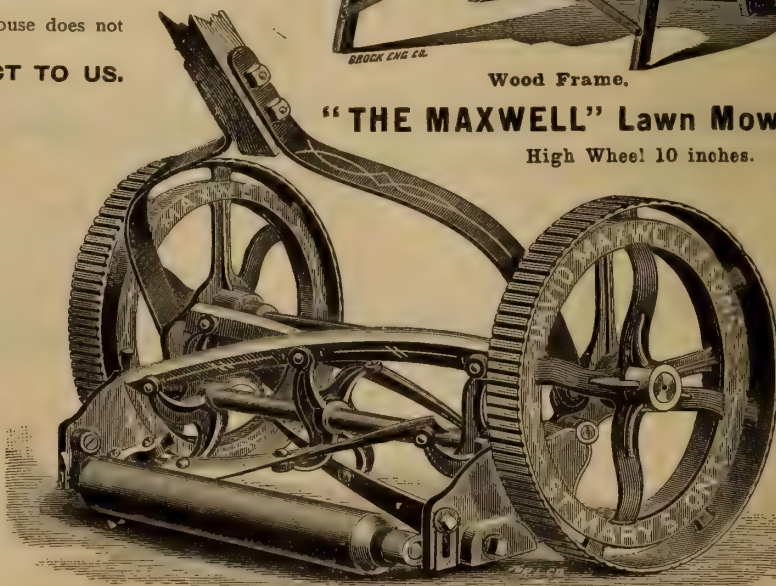
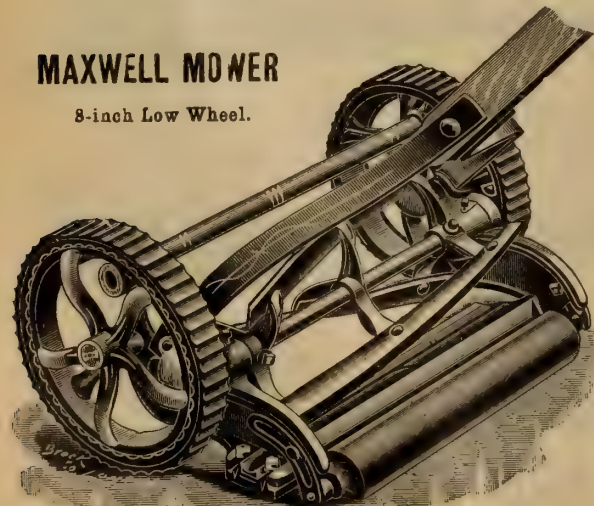
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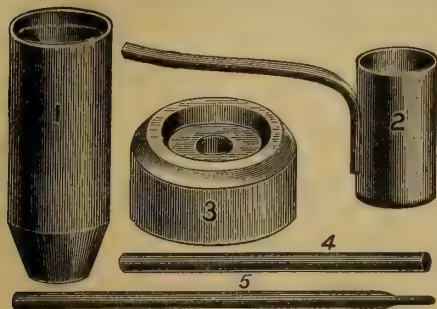
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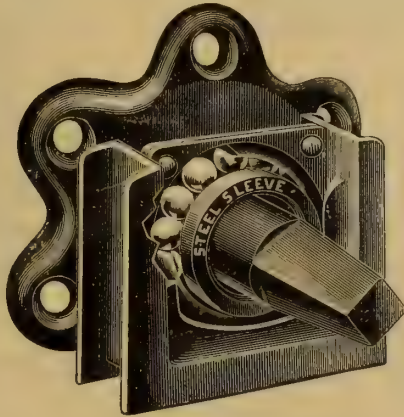
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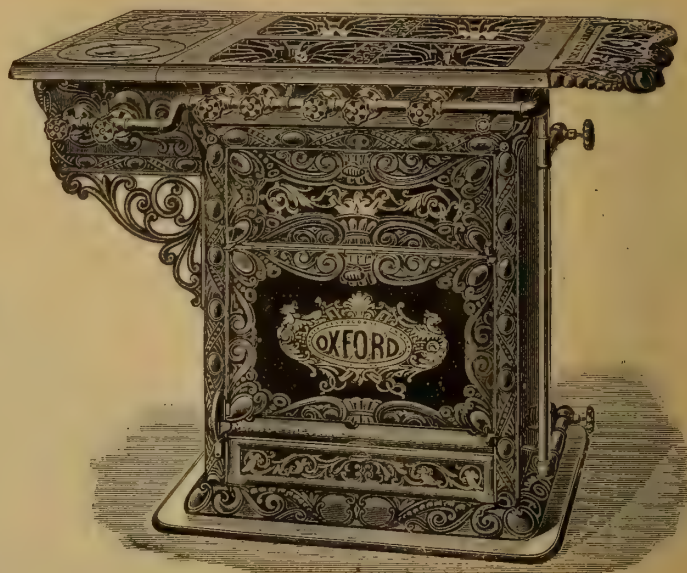
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"Plymouth"

secured public confidence by always selling at a fair price the best twine that could be made.

Plymouth is cheapest because it is best and goes farthest.

DISTRIBUTERS, PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.

JELLSTONE.

We will have this in stock in the course of a few days, put up in 5-lb. packages (white and eight tints) at the same price as barrels.

Don't load up with inferior Wall Coatings at higher prices.

SANDERSON PEARCY & CO.

----- TORONTO -----

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

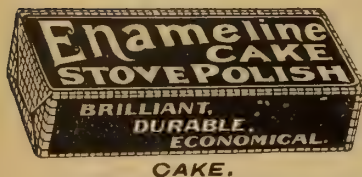
These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

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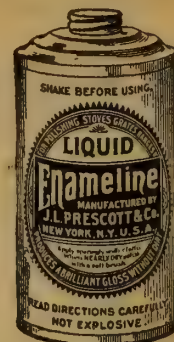
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CAKE.



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Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d.
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Ground, Washed and Flour.

WHEELS of highest quality
for general and
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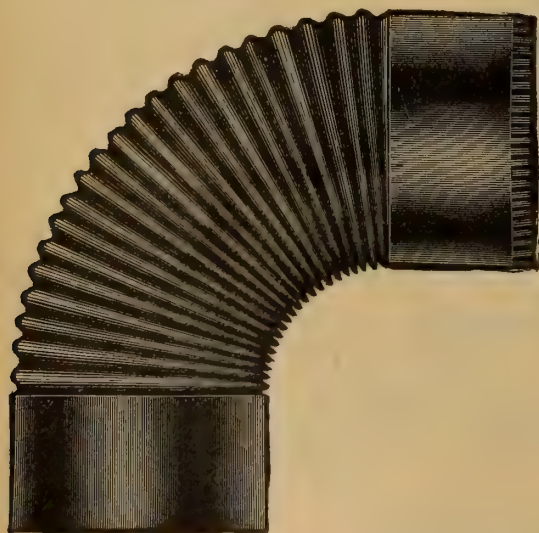


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It is attractive in Appearance.
It will not get damaged in Shipping,
It has a Coating which prevents Rust.
It is riveted ready for use.
It is as Cheap as the Ordinary Pieced Elbow,

The improved process of manufacture produces a short turn, therefore, less material is used, and consequently less weight per dozen, which results in a great reduction in freight, and a reduced cost to the buyer.

MADE IN STEEL, IN 5, 6, 7 AND 8-INCH.
MADE IN GALVANIZED IRON, IN 7 AND 8-INCH.
MADE IN TIN, IN 7 AND 8-INCH.

Kemp Manufacturing Co., ...TORONTO,
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PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

THEY STILL ADVANCE.

REFERENCE to the advance in all iron material has been made so frequently lately as to be almost tiresome, but the course of prices recently at leading primary markets has been so striking as to call for additional comment.

With No. 1 iron at Pittsburg \$2 per ton higher than it was at the opening of May, and billets over \$6 per ton higher, it is not surprising that Canadian makers of finished iron material have advanced prices, and are now contemplating still further appreciation, owing to the steady increase in the cost of their raw material.

In Great Britain, the same continued buoyancy is noted. When May opened, pig iron warrants at Glasgow were quoted

at 62s. 10d., and at Middlesboro 54s. 9d. On Tuesday, they were quoted 65s. 7d. at Glasgow and 60s. 10½d. at Middlesboro, an advance of 2s. 9d. at the former and 6s. 1½d. at the latter centre. English advices also state that makers are still up to their eyes in work, and it is notorious that importers at Montreal find it almost impossible to get a firm quotation on Scotch pig, either for prompt or forward shipment.

Comparison of the prices ruling this time last year and this year have been made before. The difference now is still more striking than it was during the spring, as will be seen from the following tables :

English markets :

	1899.	1898.
	£ s. d.	£ s. d.
Scotch warrants.....	3 5 7	2 5 11
Middlesboro No. 3.....	3 0 10½	1 19 10½
Lead, soft Spanish.....	14 5 0	13 12 6
Spelter, G.M.B.....	27 0 0	19 13 9
Straits tin, spot.....	117 2 6	68 10 0
Copper, G.M.B.....	76 2 6	50 11 3
Silver	27 12 4	26 15 0

American markets :

	1899.	1898.
	\$	\$
Pig iron warrants.....	13 25	6 80
No. 1 foundry Pittsburg.	18 25	10 50
Ressemer "	18 50	10 40
Steel billets "	32 00	15 00
Sheet steel bars "	37 00	16 75
Lead, desilverized "	4 45	3 80
Spelter, domestic "	6 30	5 10
Straits tin, spot.....	25 75	15 10
Copper, lake ingot.....	18 35	12 00
Tinplates, J. B. grade		
coke, 100 lb.....	4 00	2 70
Antimony, Cookson's...	11 00	9 62½
" Hallett's	9 75	8 85

An analysis of these figures shows that the advance over the corresponding period last year, in the majority of cases, closely approaches 50 per cent., and in several considerably exceeds it.

Business, like art, demands continued study if success is to be achieved.

THE SALE OF STOVES.

At the recent convention of the National Stove Manufacturers' Association of the United States, a paper was read by E. C. Hanrahan, on "The Ideal Stove Salesman," some points of which are worthy of repetition.

"The selling of stoves," claims Mr. Hanrahan, "is an art with features peculiar to itself. Nails, wire, oils, and a great many staples are sold with price as the exclusive governing factor. Stoves, however, have an individuality, and questions of reputation and meritorious features, either of structural or ornamental character, are potent agents in their sale.

"It is necessary, therefore, that to sell stoves the salesman must be possessed of the qualities which will enable him to command the attention, respect and confidence of the merchant whom he wishes to interest, and having placed his goods he must deport himself in such manner that he will retain the good-will and confidence of his customers. To this end he should never make a statement which cannot be borne out by facts, and should be careful in all his transactions to have everything so clear that a misunderstanding cannot possibly occur.

"The ideal stove salesman will have a thorough knowledge of his own goods and be familiar with the goods which he meets in competition, that he may be able to make necessary explanations in presenting his stoves ; at the same time he will never refer to a competitor's goods unless obliged to do so and will then do so in a fair and considerate manner. Under no circumstances will he speak of a competitor's goods disparagingly, particularly if his customer has made a purchase of such stoves, as to do so would be to insult the intelligence of the customer."

WILL GALVANIZED AND NAIL WIRE BE IMPORTED FROM EUROPE?

MANUFACTURERS of barbed wire and wire nails in Canada have some hope that they will in the course of a few months be able to import wire from Europe.

Germany has already quoted galvanized wire at a rather better price than can be obtained from the United States; but we hear of no business being done. Manufacturers of barbed wire are, however, counting on securing supplies from the former country in the spring.

There was a time when the barbed wire makers in Canada obtained the bulk of their supply of galvanized wire from Germany, but the advent of low prices in the United States practically put a stop to importation from Germany about seven or eight years ago. From that time, and up till January 1, 1898, when galvanized wire of 9, 12, and 13 gauge was put on the free list by the Dominion Government, the source of the supply was the home market and the United States. When, because of the removal of the duty, the Canadian mills ceased turning out the three gauges named, all the wire for barbed wire making was bought in the United States. Now, it is possible there may be a return to Germany, although the rush of business which the latter country is experiencing is likely to defer business for a while, at any rate.

Wire for nail-making is purchased in both the home market and in the United States. But with the preferential tariff in force it is possible, when business there assumes a more normal condition, that wire for nail-making may be imported from Great Britain. At present, however, this is unlikely, the parity of prices on the English market not permitting it. At anyrate quotations which were received in Toronto a week ago so signified.

RADIATORS ARE DEARER.

Though the price of all iron products and materials have been advancing for many months, the price of steam or hot-water radiators has been unaffected until this week, when the trade have been notified of an advance which is equivalent to about 10 per cent. on the old prices.

Even at the present prices there is little margin of profit for the manufacturers, and a further advance may follow the present one.

HIGHER FREIGHT RATES ON IRON.

IN all probability, freight rates on iron in the Central Western United States will be materially advanced on July 1.

Representatives of the Pittsburg, Wheeling, Canton-Massillon, Youngstown, and Canal Dover freight committees met in Pittsburg, and decided to recommend to the Central Freight Association that freight rates on pig iron, billet, mill cinder, and scale should be advanced.

It is proposed that rates on pig iron, billets, mill cinder, and articles taking same rates, between short haul points in the territory of the committees represented, should be as follows: Pig iron, 75c. per gross ton; mill cinder and scale, 60c. per gross ton, and billets, 85c. per gross ton. The new rates represent an advance of about 10c. a ton over present rates, and apply between Pittsburg and Wheeling, Pittsburg and Mahoning and Shenango valleys; Mahoning and Shenango valleys and Cleveland, and Mahoning and Shenango valleys and Wheeling.

Between Pittsburg and Cleveland, Erie and Ashtabula and Wheeling and Cleveland, the proposed rate is \$1.25 per gross ton for pig iron and \$1.35 for billets and \$1 for mill cinder and scraps. It is recommended that pig iron and billets, and articles taking same rates, from Pittsburg to New York, should be \$2.70 per gross ton on pig iron, etc., an advance of 30c., and \$2.90 on billets, etc., an advance of 20c. These rates are on the basis of \$4.50 per gross ton on pig iron and \$4.90 per gross ton on billets from Chicago to New York.

Rates between Mahoning and Shenango valleys and Buffalo, and between Cleveland and Buffalo will likely be advanced 10c. per gross ton.

The committee has further recommended that the special list of iron and steel articles which now take fifth-class rates in less than carloads, and sixth-class rates in carloads, be again placed according to the official

classification at the close of business on October 31. This would have the effect of giving these articles the fourth-class rates in less than carloads and fifth-class rates in carloads. The carload rate, Pittsburg to New York and Pittsburg to Chicago, may, on November 1, thus be advanced from 15c. per 100 lb. to 18c. This action takes in a long list of the general run of manufactured iron and steel, including bar iron and steel, wire, nails, forgings, castings and various other articles, for all of which 15 tons is the carload minimum.

KNOW YOUR GOODS.

THOSE who would be successful as merchants, clerks, or traveling salesmen cannot possess too much knowledge in regard to the character, quality, and make of the goods they are selling.

There are very few people who are so disinterested as to quality, etc., that they are willing to buy goods about which they know nothing.

It should be the ambition of everyone who sells hardware to be competent to furnish the desired information. But, before a man can give information, he must acquire it. This requires application, particularly on the part of young men, who have yet their experience to gain.

But there is always something for even the oldest member of the hardware trade to learn. If he can acquire nothing new in regard to old goods, it must be remembered that there are new goods coming upon the market in steady procession.

He who applies himself to learn as much as possible regarding the trade in which he is engaged will steadily increase in value, whether he be employer or employe.

DROPS FROM THE EDITOR'S PEN.

Time is fitted with wings that never tire.

It costs energy to succeed, but it costs reputation to fail in life.

The store window that is not properly dressed is not respectable.

He who follows questionable paths often gets into the maze of difficulties.

"Following the leader" is not always wise in business. The most successful men are those who follow their own instincts.

CANADA'S BICYCLE EXPORT TRADE.

CANADA is gradually taking her place among the nations as an exporter of bicycles.

In the trade returns of 1896 there is no record of any bicycles being exported. The few that did go out were included in the classification, "other vehicles," the number being too small to be worthy of separate classification.

The returns show that during 1897 there were exported 6,131 bicycles, the product of Canadian factories, valued at \$299,664. But in 1898 the number had swelled to 8,617, and the value to \$373,383. Besides this, there were exported parts of bicycles to the value of \$13,141 in 1897, and of \$39,445 in 1898. When everything is considered the results are most gratifying.

The countries to which the bicycles were exported in 1898 are as follows :

Great Britain	616	\$28,901
Australia	5,229	243,042
British East Indies	7	416
British Africa	254	12,726
British Guiana	4	144
British West Indies	48	1,997
Newfoundland	53	3,217
Austria	3	116
Bulgaria	2	83
Brazil	3	500
France	490	20,514
Germany	1,441	44,148
Holland	4	120
Japan	8	394
Portugal	9	450
Russia	4	166
Sweden and Norway	131	5,513
Switzerland	4	176
United States	307	10,760

It is worthy of note that the countries which purchased most heavily from us in 1897 were the ones which chiefly contributed to the increase in 1898. This may be gathered from the following, showing the value of the exports in 1897 to the countries mentioned : Great Britain, \$23,188 ; Australia, \$207,798 ; British Africa, \$7,323 ; France, \$5,890 ; Germany, \$14,287 ; United States, \$9,573. Sweden and Norway took \$17,106 worth, which was about \$12,000 worth more than in 1898. Holland, also decreased her purchases in 1898.

As the total number of bicycles manufactured in Canada in 1898 is estimated at 18,617, it is evident Canada exports about 46 per cent. of her total manufactures of bicycles.

BOLTS AND NUTS HIGHER.

Another change is announced in the price of bolts and nuts, an all-round advance having taken place. The new discounts,

as well as those previously existing, are as follows :

	New Discount.	Old Discount.
Norway bolts, full square....	67½	70
Common carriage bolts, 5-16 and under.....	57½	60
Common carriage bolts, ¾ and under.....	52½	55
Common carriage bolts, full square.....	67½	70
Machine bolts, all sizes.....	57½	60
Coach screws.....	72½	75
Sleighshoe bolts	72½	75
Blank bolts.....	57½	60
Bolt ends	62½	65
Nuts, square.....	4	4½
Nuts, hexagon.....	4½	5
Tapping nuts	60	70

The advance is from 5 to 10 per cent.

STAPLE PRICES UNUSUALLY HIGH.

ACCORDING to Bradstreets, New York, the price of 105 of the principal staples at June 1, this year, averaged higher than at any period since April, 1893, the year of the panic.

The following table of approximate index numbers gives an idea how prices have run in recent years :

July 1, 1891	91,633	June, 1897.....	66,648
" 1892.....	80,629	July, 1897	66,937
" 1893.....	79,369	May 1, 1898	74,666
" 1894	72,270	June 1, 1898	74,885
" 1895.....	72,270	May 1, 1899	78,996
" 1896.....	65,952	June 1, 1899.....	79,873

These averages show that, taken as a whole, the condition of the market is much higher than in the last few years, though it does not yet come up to the high prices prevailing in 1891.

Of the 105 staple articles included in the calculation, there have been advances in the price of corn, rye, peas, beeves, sheep, beef and mutton carcasses, milk, eggs, hams, butter, cheese, mackerel, tea, molasses, raisins, salt, hides, hemlock, oak and union leather, Australian wool, jute, silk, printcloths, standard sheetings, gingham, cotton sheetings, iron ore, Eastern, Southern, and Bessemer pig iron, steel rails and billets, tinplates, steel beams, silver, copper, lead, tin, bituminous coal, Connellsville coke, crude and refined petroleum, turpentine, nails, yellow pine, spruce and hemlock timber, borax, alcohol, quinine, hops, rubber, rock and phosphate. This includes over half of the whole, or 56 out of the 105 articles.

In the following 37 of the articles there have been decreases in value : Wheat, oats,

barley, flour, hogs, beef, pork, bacon, lard, coffee, sugar, rice, beans, potatoes, peanuts, lemons, currants, cotton, Ohio and Pennsylvania wool, hemp, flax, quicksilver, anthracite coal, Southern coke, linseed oil, castor oil, olive oil, resin, tar, bicarbonate soda, sulphuric acid, opium, tobacco, hay and cotton seed. Twelve articles, glass, alum, nitric acid, ground bone, lime, brick, cottonseed oil, aluminum, codfish, bread, hogs, carcasses, and horses, are unchanged in value compared with a year ago. Of the advances the most notable are in iron and steel, live cattle and sheep, most groceries, hides and leather, manufactures of textiles, coal, coke, petroleum, building, and corn and rye.

On June 1, as compared with May 1, 1899, 36 of the 105 articles advanced in value, and 42 remained unchanged, thus showing a decline in only 25 articles. On the whole, therefore, prices tended upwards in June as well as in the year as a whole. Though wheat, oats, barley, hogs and potatoes show a decline in price from June 1898, to June 1899, the stiffening is attributed to the prosperity of the agricultural interests, for it was here that the first evidences of improvement in trade were noted. Three years (from 1896 to 1898 inclusive) of good demand and prices for agricultural products have resulted in such an active demand for and large distribution of both necessities and luxuries from the agriculturists, that the general increase of business must be accredited to this cause.

IRON ORE OF BILBAO.

Although there is no probability of anything approaching immediate failure of the iron ore supply of Bilbao, there being still in the quarries from 40 to 50 million tons, yet the output has, during the last few years, been gradually diminishing. For instance, in 1898 the output was 4,973,000, in 1897, 5,136,800, and in 1896, 5,160,000 English tons. On the other hand, the quantity of pig iron exported grows apace. Last year the exports amounted to 51,942 English tons, against 43,516, 22,543, and 21,952 tons in the three respective preceding years. Of the 51,942 tons sent away last year, the United Kingdom was by far the largest customer, having bought 15,533 tons, Italy, France, Holland, and Germany following in the order given.—The Engineer.

FUTURE PULP WOOD COUNTRY.

American Paper Trade, New York, May 27, 1899.

THE common spruce tree of the American forests furnishes the great bulk of the wood pulp that is daily converted into printing paper. The word "common" is chosen advisedly. Time was when, in New England and the northern tier of States, spruce trees were as familiar to the people and almost as plentiful as the grass of the fields.

The inevitable result has been so rapid a contraction of the available spruce area in the United States that many of our paper manufacturers have been forced already to go over into Canada for spruce logs. The situation is not keenly critical, but it would be folly to declare that it is not alarming. American ingenuity may yet discover something to take the place of spruce pulp in the making of paper, but, up to date, it surely has not done so. Upon the best inside authority it has lately been declared that, if the present pace of clearing spruce land is kept up, in five years from now there will not be a stick of the timber standing in the United States.

Forestry and pulp manufacturing data are in some instances difficult of access, but the most reliable sources of information, after the most careful investigation by a Boston newspaper, yield the following facts:

Practically the only large spruce areas available for pulp now left in America—that is, for the supply beyond the immediate future—are in parts of Maine and the British Provinces.

Maine has been a most attractive field for spruce pulp operations. She was a pioneer in the industry, and she now finds most of her own spruce contiguous to water power cut off. On the Androscoggin river there are numerous pulp mills, which, when worked to their full capacity, require about 250,000,000 feet of spruce logs annually, and it is reported on good authority that the standing spruce in the territory tributary to these mills cannot last over four years at the present rate of consumption. "Why," was the recent remark of a Boston manufacturer, "they are already grinding up bean poles and boughs for pulp down on the Androscoggin—this, to save the larger trees—and God only knows what they will do five years from now."

Contiguous to the Kennebec river the spruce lands have been so nearly stripped that they can no longer supply the pulp and sawmills with logs.

In northern Maine, the waterways that flow into the St. John river above Grand Falls, in Canada, have most of the smaller growth of spruce still standing along their banks, and for many miles inland. This is

because there was profit to the lumbermen only in the large logs. The cost of driving and booming to the mills was over \$2.50 per 1,000 feet on an average, and it did not pay to cut and drive the small growth.

And here is the only part of Maine where large pulp and paper mills can now find a supply of good timber. Where there is good water-power convenient to these spruce tracts and transportation is sufficiently cheap, these properties are being rapidly developed, or, at least, being bought up by paper capitalists as a safeguard for the future. But, compared with the enormously increasing consumption of white paper, both in this country and in Europe, the spruce pulp product of these remaining forest lands in northern Maine promises to put off an evil day of actual exhaustion only a year or two at the best.

It is to Canada, then, that we must turn for our spruce in the future—the very near future, too. And this condition has already awakened our Provincial neighbors to the opportunity which they possess for developing the pulp and paper industry along our own waterways, so that, if our manufacturers here in the United States would provide early for the inevitable, they have no time to lose in the matter of selection and purchase of Canadian lands. The price is already advancing, and the comparatively few water-powers are becoming scarcer on the market. The cry of the paper manufacturers is: "On to Canada."

EXAMINE SAMPLES.

There is certainly one thing which no enterprising merchant should neglect to do, remarks Stoves and Hardware Reporter, and that is to look at and carefully examine salesmen's samples when a call is made at the store by one of the fraternity. In many cases merchants will refuse to look at goods either because they are too busy or because they do not think it worth while. The case may be that the merchant does not happen to need anything at the time, but he soon will if his store is what it should be. Then again he might be able to pick up something in the way of a novelty which might sell well and assist in accelerating trade. By examining all goods brought to his notice by salesmen, the merchant keeps in touch with the best that is going, as well as varieties in designs, makes, brands, etc. Unfortunately but little consideration is shown the salesman by the merchant, as a rule. The latter looks upon the former as a dependent creature whose wishes deserve no deference. Consequently engagements are thoughtlessly broken, thus causing the salesman to needlessly waste time in waiting for the merchant to make another appointment, when, like as not, an infinitesimally small order is

given. Now, the merchant should try to remember that the salesman's time is as valuable as his own, and that he is worthy of as much consideration.

SMELTING WORKS IN NOVA SCOTIA.

The Herald, Halifax, of a recent date, had the following: "H. B. Mutch and Samuel K. Paige, of Boston, two gentlemen interested in the establishment of smelting works in this Province, spent Sunday at Revere hotel. They are interested in mining properties at Wentworth, Cumberland, and expect to establish a smelter (an advantage this Province does not possess) at a point on the north shore, either in Cumberland or Pictou counties, where they will have the convenience of shipment by water, and also be in the vicinity of the coal and iron mines. Pictou is naturally well situated in this respect, and if these gentlemen conclude to locate there, every advantage and encouragement should, and will, no doubt, be given them by the town, says The Advocate. On Monday morning these gentlemen, accompanied by Mayor Craig and Councillor McDonald, drove about the suburbs and inspected several probable sites but came to no decision in the matter, and journeyed to Wallace, Pugwash, and other points. Their plans for extensive works, involving the expenditure of thousands of dollars, are already prepared, and, should Pictou be fortunate enough to be chosen as the site, work will be commenced at an early date."

An Austrian is said to have invented a quick-firing rifle, capable of discharging 50 cartridges per minute. It is a fifteen-barrelled weapon, and all fifteen barrels can be loaded by one movement of the hand, these advantages (The Morning Leader correspondent says), being combined with light weight and a mechanism which is easily handled. The military officials at Pola were so struck with the new rifle that they immediately despatched the inventor to show it at headquarters in Vienna.

WIRE NAILS TACKS WIRE

Prompt Shipments

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THE CAR WHEEL CONSOLIDATION.

A CIRCULAR has been issued by the organizers of The International Car Wheel Co., recently incorporated under New Jersey laws, with \$15,000,000 capital, giving additional information about the properties to be taken over by the new company. The capital of the consolidated company, it will be recalled, is divided into \$5,000,000 of preferred and \$10,000,000 of common stock. The circular, as published in The New York Journal of Commerce of the 15th inst., is as follows:

"The consolidation has been effected on the following basis: \$775,000 of the preferred stock and \$3,255,000 of the common stock will be issued in full payment for the real estate, buildings, tools, machinery, plant, and good-will of the various consolidating companies; \$1,000,000 of the preferred stock will be sold to provide working capital for the new company. The balance of the preferred and common stock will be reserved for future issue as may be necessary for the expansion of the business or the acquisition of other like properties. The new company will not take over the present investments in credits and merchandise, manufactured and unmanufactured stocks, iron, etc., and bills and accounts receivable, and it will not assume the bills and accounts payable, debts and obligations of any kind of the companies consolidating. Each company will collect its own bills and accounts receivable and all other moneys due to it, and pay all its outstanding obligations of every kind whatsoever. Manufactured and unmanufactured stock, iron, etc., will be disposed of by each company for its own account; but the new company will have the option of purchasing from each consolidating company, at present market value, such manufactured and unmanufactured stock, merchandise, iron, etc., as may be desired. All real estate, buildings, tools, machinery and plant now used and required for carrying on the business of each consolidating company will be transferred to the new company against the delivery of preferred and common stock as above set forth. The consolidating companies are:

Wheels. Castgs.
No. Tons.

New York Car Wheel Works, Buffalo, New York City and Phila. Works, Phila. Car Wheel Co., Pittsburgh Car Wheel Co., daily capacity	500	10
Sweet Car Wheel and Foundry Co., Chelsea, Mass., now being consolidated with Boston Car Wheel Co., Boston, Mass., with additional plant now being put in, daily capacity	200	20
St. Thomas Car Wheel Co., St. Thomas, Ont., daily capacity	200	20
Hamilton Wheel and Foundry Co., Hamilton, Ont., daily capacity ..	200	30
Montreal Car Wheel Co., Montreal, P.Q., daily capacity	100	..
Ramapo Wheel and Foundry Co., Ramapo, N.Y., daily capacity	200	20
John McDougall & Co., Montreal, P.Q., daily capacity	100	..
Total daily capacity	1,500	100

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by the company he keeps. He can't associate with tramps and expect to win a reputation for industry.

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BOSTON
TORONTO

Weston Charcoal Iron Furnace property, Manistique, Mich., daily capacity 100 to 125 tons charcoal iron. The furnace company property includes the supply of ore for this year's operations and supply of wood for charcoal—making sufficient for operations for a period of twenty years.

"It is neither the intention nor the desire of any of the consolidating companies to make a sale of their business; but it has been deemed advisable to bring the entire operations, as set forth, under the direction and control of one organization, which shall carry on every operation in connection with the business from the ore to the finished product. The advantage gained by the consolidation will include not only economies in administration and saving of freights, but will insure an adequate supply of raw material for all the operations of the new company. It is not the intention to close any of the consolidating plants, as only those have been acquired which have a regular and well-established business in supplying steam, electric, and other railways with wheels and castings for regular renewals and new construction.

"Options have been obtained upon other valuable furnace property, extensive woodland for charcoal-making, and ore supply. These properties are now being examined and action will shortly be taken in regard to them. The capacity of the car wheel works

acquired will be immediately increased to 2,000, and, if necessary, 2,500 wheels per day. The furnace property acquired is in shape to start up within a few months, and is now supplied with ore for this year's operations.

"In Canada, the wheel companies have secured for a term of years the product of the new charcoal furnace of The Canada Iron Furnace Company now building at Midland, Ont., which will have a capacity of 100 tons per day. It is the intention to export charcoal pig iron as part of the new company's operation for the use of affiliated car wheel works now operated and under construction in Europe."

The following directors of The International Car Wheel Company have been elected for the first year: P. H. Griffin, Buffalo, N.Y.; T. Guilford Smith, Buffalo, N.Y.; J. Fred. Pierson, Ramapo, N.Y.; A. L. Bosson, Boston, Mass.; T. J. Drummond, Montreal, P.Q.; Edgar McDougall, Montreal, P.Q.; Herbert L. Satterlee, New York; C. W. Barnum, Lime Rock, Conn.; S. Singer, Paris, France; Robert Cowans, Montreal, P.Q.; A. E. Domville, St. Thomas, Ont.; Warren P. King, Buffalo, N.Y.; John H. Fleming, Brussels, Belgium, and Howard K. Wood, Jersey City, N.J.

In this connection it may be said that The Ramapo Car Wheel Company, recently incorporated, with \$100,000 capital, has been formed to take over The Ramapo Wheel and Foundry Company, which may be turned over to The International Car Wheel Company.

OLD WAY TO TEST A SICKLE.

An old German called at a hardware store to purchase a sickle for cutting grass. He was shown some of German manufacture, such as he had used when a boy in the old country. He expressed some doubts as to the genuineness of the article and proceeded to test it. He took a piece of broom straw about two inches in length, wet it with saliva, and placed it across the back of the sickle. As soon as he let go of the straw it whirled around like the needle of a compass, until it lay parallel with the blade of the sickle, whereupon he pronounced it a genuine German tool. Several persons who happened to be present were much astonished at the result of the old man's experiment, and insisted upon his repeating it, which he did several times with the same result. Then the spectators tried it, and whenever the straw was sufficiently wet, so that it did not stick, it would whirl around as surely as a needle of a compass turns to the pole. Just why the straw acts thus no one could tell, and whether it would act so on an English or an American sickle is not known. Some talked about the blade of the sickle being magnetized, but it is not known that a magnet has any attraction for a wet broom straw. Perhaps a wet straw would do the same thing on the back of a knife or any piece of iron. Any one interested in such a thing can make the experiment.—Portland Oregonian.

AN INGENIOUS SALESMAN.

At the banquet of the Chicago Shoe and Leather Men, some weeks ago, according to an exchange, a shoe salesman related an experience of one of his friends traveling for a Chicago shoe house. A new shoe store was to be opened in a small town in Illinois. The Chicago salesman heard of it, and took the first train for the town nearest to it that could be reached by rail. He arrived at this town about midnight, and thought he would drive over to see the merchant the next morning. A Boston shoe salesman was also at the hotel, and, suspecting the mission of the Chicago man, he got up early, and hired every rig at the one livery barn. The Chicago man got up just in time to see the Boston man starting out with his procession of teams. He hustled around to see if there was anything left, and the only thing on wheels was a hearse. He promptly hired this, and, loading in his trunks, he took another road, and drove at full speed to the neighboring town. When the Boston man came coolly driving in with his full procession, he found a hearse backed up at the door. Hastening in, he was surprised to find the Chicago man smiling at him over his order book, which already contained the bulk of the opening stock.

GRANGE SUPPLY COMPANY IN DIFFICULTY.

The Grange Wholesale Supply Company, Limited, of Toronto, is in financial difficulties, and payment has been suspended. The shareholders and creditors are being consulted, and the question is being dis-

cussed as to whether the capital stock of the company shall be increased and the business established on a more extensive basis, or whether the business shall be wound up.

The assets, in a statement which has been issued, are \$27,151.27, and the liabilities \$18,536.17, leaving a surplus of \$8,615.10.

NEW MODELS OF 1899**Iver Johnson Cycles****\$25 AND \$35****Good wheels Cheap.****OTHER MODELS, \$40 \$50 \$60 \$75****Honest Cycles at Honest Prices.****SEND FOR CATALOGUE.**

Iver Johnson's Arms & Cycle Works
Fitchburg, Mass.

Branches—

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

Use Gilbertson's Tinplates

for the following reasons:

They are heavily coated with Tin.
They are of Soft Siemens quality.
They are noted for deep stamping qualities.
They are the best for canning purposes.
They cost NO more than inferior brands.

Gilbertsons' make the following brands and qualities:

"Gwyned," Coke Finish,
"Regina," Coke Finish,
"Comet," Charcoal Finish,
"Lincoln," Charcoal Finish,
"Crown," Charcoal Finish,
"Pontardawe," Best Charcoal Finish.

BE PARTICULAR to ask for these brands when ordering from your jobbing house. They can be supplied in all sizes and weights.

GILBERTSON'S TERNEPLATES**"Regina" brand**

This is a superior plate and heavily coated—a good roofing plate that will give satisfaction to your customers.

Wholesale only.

ALEXANDER GIBB

Agent for Canada.

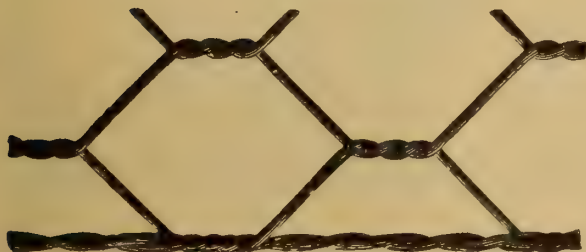
22 St. John Street, MONTREAL.

H. S. HOWLAND, SONS & CO.

Wholesale Only

37-39 Front Street West, TORONTO

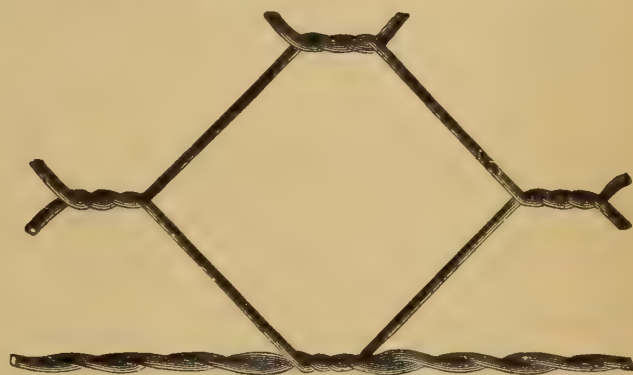
In Stock POULTRY NETTING In Stock



$\frac{1}{2}$ -in. Mesh, 19 Gauge, 30 in. wide.

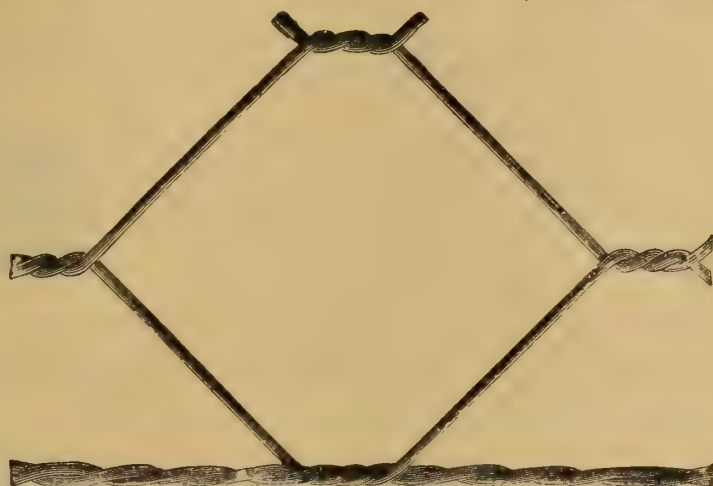
$\frac{3}{4}$ -in. Mesh, 20 Gauge, 24 in., 36 in. wide.

1-in. Mesh, 20 Gauge, 30 in., 36 in. wide.



1 $\frac{1}{2}$ -in. Mesh, 19 Gauge, 24 in., 30 in. wide.

IN STOCK.
Orders filled at
market prices.



2-in. Mesh, 19 Gauge, 12, 18, 24, 30, 36, 42, 48, 60, 72, 84-in. wide.

IN STOCK.
Orders filled at
market prices.



4-Barb, 4 in. between.

4-Barb, 6 in. between.

BARB WIRE.



2-Barb, 5 in. between.

PLAIN WIRE.

Oiled and Annealed, 10, 11, 12. Annealed (Hay Baling) 14.
Plain Galvanized, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Tinnings' Wires, 7, 8, 9, 10, 11, 12.

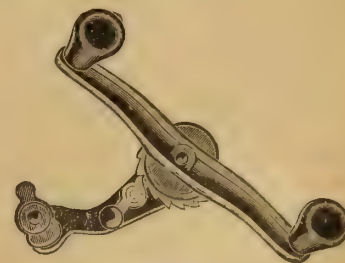
WIRE STRETCHER.



$1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{3}{4}$ -in.



Hercules.



Samson.

H. S. HOWLAND, SONS & CO., TORONTO.

Graham Cut and Wire Nails are the Best.

BUSINESS CHANGES.**DIFFICULTIES, ASSIGNMENTS, COMPROMISES.**

ELZEAR ROBERGE, general merchant, etc., Notre Dame des Bois, Que., is offering 50c. cash on the dollar.

Hill Bros., hardware dealers, St. John's, Nfld., have assigned.

The bailiff is in possession of Wadsworth & McWhinnie, roofers, for rent.

Francois Belanger, general merchant, Ville Marie, Que., has compromised at 50c. on the dollar.

J. McD. Haines has been appointed curator of J. A. L. Jutras, general merchant, Richmond, Ont.

Boyd & Morton, bicycle and sporting goods dealers, etc., Ottawa, have assigned to W. A. Cole, and a meeting of creditors has been called for June 19.

PARTNERSHIPS FORMED AND DISSOLVED.

Partnership has been registered by Ross, Barry & McRae, as contractors, in Joliette, Que.

McLean & Baines, dealers, in agricultural implements, Hamiota, Man., have dissolved.

Partnership has been registered by Beaudion & Frere, general agents, St. Cune-gonde, Que.

Stapley & Brewster, machinists, etc., Edmonton, N.W.T., have dissolved, W. A. Brewster continuing.

A. Poyaner & Co., general merchants, Windsor Mills, Que., have dissolved, and Mrs. Hattie Simon has registered as proprietress.

George A. Darche and Moise Allaire have registered as partners, under the style of Darche & Allaire, general merchants, Asbestos, Que.

James Proulx and Dolard Mesnard have registered partnership as dealers in wood and coal, under the style of J. A. Proulx & Co., Montreal.

Copartnership has been registered by G. R. Smith only, as general merchant, under the style of Dunlap Bros., Smith & Co., Amherst, N.S.

The Silverine Manufacturing Co., Montreal, have dissolved partnership and Eusebe Bonneville and Patrick Delaney have registered as proprietors.

Amos S. Govang and Alphie Leblanc have registered copartnership as general merchants, under the style of Govang & Leblanc, Fox Creek, N.B.

SALES MADE AND PENDING.

The assets of Narcisse Jobidon, contractor, Quebec, are advertised for sale.

The stock of Duncan McPherson, general merchant, West Lorne, Ont., has been sold by auction,

Klaiman & Moldowan, general merchants, St. Jean Baptiste, Man., have sold their

stock, at 50c. on the dollar, to T. Finklestein.

The stock of P. E. Hudon, general merchant, Hebertville, Que., has been sold at 65c. on the dollar.

The realty, plant, etc., of The Burrill, Johnston Iron Co., founders, Yarmouth, N.S., is advertised for sale.

Joseph Boisvert, general merchant, Laurier, Man., has sold his stock, at 50c. on the dollar, to The Donaldson Trading Co.

CHANGES.

Jules Grosboillot has registered as contractor in Montreal.

Byce & Co., general merchants, Kars, Ont., are removing to Easton's Corners.

E. Redpath, general merchant, Niagara Falls South, Ont., is retiring from business.

Gould & Elliot, general merchants, Pier-son, Man., have sold out to Hamelin Bros.

J. Duffield & Son, hardware dealers, etc., Wingham, Ont., have sold out to — Bugg.

Joseph Hill, general merchant, Thornby, Que., has been succeeded by Wilkins & Clarke.

Wm. Halliday, general merchant and banker, Pakenham, Ont., has given up business.

Adam Forbes & Co. have bought the stock of A. M. Kane & Co., general merchants, Rothwell, Man.

The stock, etc., of the estate of Curry Bros., general merchants, Andover, N.B., have been sold to Fisher & Hayden.

The Coles National Manufacturing Co., manufacturers of awnings, tents, etc., Ottawa, are retiring from retail business.

FIRES.

John Kerr, coal and wood dealer, Brantford, Ont., has suffered loss by fire.

M. C. Callahan, carriagemaker, etc., Petrolea, Ont., has been burned out.

A. McNair's shingle mill at Hastings, B.C., has been burned; loss, \$45,000; uninsured.

Xavier Savard, general merchant, St. Felecion, Que., has been partially burned out; insured.

DEATHS.

H. N. Hughes, of Hughes Bros., bicycle dealers and laundrymen, Barrie, Ont., is dead.

NEW FIRMS COMMENCING.

R. E. White has opened up, as tinsmith, in Toronto.

The York Machinery Co. have started as manufacturers of laundry machinery in Toronto.

George Tomilson has started a planing mill in Ottawa.

Frank Hadrigan has commenced business as dealer in agricultural implements in Mallorytown, Ont.

CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.

**COVERT MFG. CO.**

West Troy, N.Y.

Steel Carriage and Wagon Jacks,

Harness Snaps, Chain, Rope and Web Goods, etc.

FOR SALE BY JOBBERS AT MFRS. PRICES.

**PRIEST'S CLIPPERS**

Largest Variety, Toilet, Hand, Electric Power

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

SEND FOR CATALOGUE TO American Shearer Mfg. Co., Nashua, N.H., U.S.A.

**COATES' CLIPPERS**

HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.

Coates Clipper Mfg. Co.

WORCESTER, MASS.

**Pullman Sash Balance Co.**

Makers of the

"Pullman" Hardware Specialties

Main Office and Works, Rochester, N.Y., U.S.A.

Size, 3/4-inch.

**Cheapest IN THE WORLD.****J. M. LITCHFIELD**

458 Quincy St., Brooklyn, N.Y.

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Limited

CAPITAL - \$25,000

W. H. SHAW, ESQ., President.

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J. ARTHUR MCMURTRY, Sec.-Treas.

79, 80, 81, 82 Confederation Life Building TORONTO, ONT.

General Patent Agents in procuring Home and Foreign Patents and all matters pertaining to Patents and Patent Causes, also the buying and selling of Patents, and the Organizing and promoting of Joint Stock Companies. List of 500 inventions wanted and list of Canadian Patented inventions for sale, mailed to any address free, address

The Toronto Patent Agency

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TORONTO, ONT.



Agricultural Implement Manufacturers.

We make a specialty of —————

Pure Vermilion, Chrome Yellow,
Chrome Green and Tinted Paints

for your special use.

Write for Prices.

P. D. DODS & CO.

100 Bay Street,
TORONTO.

188 and 190 McGill Street,
MONTREAL.

EXTENDED INSURANCE.

One of the many liberal features embodied in the
UNCONDITIONAL ACCUMULATIVE POLICY
issued by the

Confederation Life Association.

HEAD OFFICE--TORONTO.

is the provision for Extended Insurance. After two full annual premiums have been paid, the insured is entitled to Extended Insurance for the full amount of the policy for a term of years definitely stated therein. Paid-up and Cash Values also guaranteed.

Rates and full information sent on application to the Head Office, Toronto, or to any of the association's agents.

W. C. Macdonald,
Actuary.

J. K. MACDONALD,
Managing Director

SNIDER RIFLES

We offer a limited number of **Short Snider Rifles** in good serviceable condition complete with sword bayonet

— ALSO —

a limited number of **Long New Snider Rifles.** These are **absolutely** new rifles never having been issued, and with each is the ordinary three cornered bayonet.

The quantities are limited. We solicit enquiries from the wholesale trade.

LAMPLOUGH & McNAUGHTON, Montreal.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

THE minimum for Bessemer pig iron is \$18 valley furnace, or \$18.65 Pittsburgh. A small tonnage has been sold on this basis in the last few days. The associated furnaces have very little iron to sell; in fact, at the recent meeting it was figured that they had no more than 60,000 tons for the balance of the year, and to sell this quantity it was admitted some deliveries might have to be deferred to January. There may be an equal quantity of Bessemer coming from outside sources. In foundry iron, the market has been rather quiet, but the actual demand has strengthened prices by 25c. per ton since last report. In mill iron, prices are also considerably firmer.—Iron Trade Review, June 8.

STRENGTH OF HEMATITE IRON.

An advice from Barrow-in-Furness, under date of May 27, says: "The hematite pig iron continues to increase in strength, and the demand for consumptive purposes is improving, while speculators and merchants are buying more freely in order to insure deliveries at forward dates. Makers in the meantime cannot sell large parcels, either for prompt or early delivery, as they are responsible already for a fuller delivery than they can maintain. Stocks show an increase on the week of 1,200 tons, and warrant stores hold at present rather over 228,000 tons. Makers, however, hold no stocks."

SHEEP-SHEARING MACHINES.

The adversities of the British farmer are gradually curing him of that stubborn conservatism which has been such a stumbling-block to him in the past. He is abandoning the old ruts, one after another, and, among other things, his troubles in the shape of scarcity of hand labor are compelling him largely to adopt machinery. I hear that this tendency is taking a new direction. Competent sheep-clippers are so hard to get that much of the season's wool will have to be cut by shearing machines. Up to the present, the trade for these useful tools has been mainly confined to the colonial and South American sheep farmers, but, for the first time, large quantities are being sold at home.—"Vulcan," in Ironmonger.

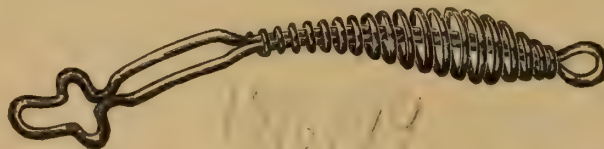
"BOOM" IN THE BRITISH LOCK TRADE.

The lock manufacturers in the Birmingham district are having a good time just now. The activity in the building trades has caused large lock contracts to be placed with them, and it is within the bounds of reality to say that there is an almost unequalled "boom" in the lock trade. The demand is not confined to the stock

varieties; heavy orders and inquiries have been received for what are known as "special work" mortice-locks. Many of these contracts are for hotels, clubs, and public buildings, which are being erected in hitherto unheard-of numbers. The lock contracts run from 100 up to 1,100 pieces. Each lock in a set of 100 is different; a master-key is provided with each set, and a grand master-key for the whole suite. There is nothing unusual in orders of this kind, but they have never been so plentiful as now. It is said, however, that business in ordinary builders' locks is being checked somewhat on account of anticipated trouble in the building trade. The 5 per cent. advance in the selling-prices of all varieties of locks which was declared in December last by the Lock Manufacturers' Association is, of course, maintained. The firmness of the market has been further stimulated by an inquiry for 3,000 iron padlocks and 30 dozen brass cabinet locks which has just been received in the district from the War Office. The chief item in the padlock inquiry is for 2,600 2-in. japanned four-lever locks with bright shackles, but 2-in. iron padlocks, large brass padlocks and other descriptions are also asked for. In the brass cabinet department the descriptions required are 2½ and 3-in. brass door locks (the latter weighing 8½ oz.), 3½-in. cupboard locks (weighing 6½ oz.), and 2-in. desk locks (iron faced). Three-inch four-lever cabinet locks for cupboards are also required.—Ironmonger, London.

NEW YORK METAL MARKET.

FIG TIN—Only 25 tons of tin arrived yesterday, and the strong position of supplies that caused an advance in prices on Monday was, if anything, even stronger today. It was estimated that the consumption thus far this month has exceeded the importations by about 600 tons, and it was an established fact that prices are, for the moment, governed wholly by local conditions, independent of London fluctuations. Busi-



ness was only fair, but at stiff prices, or 25.70 to 25.80c. for 5-ton lots, and about 0.10c. more for single tons.

COPPER—In the market here there were no new developments. Dealings were moderate, to all accounts, and inquiries more of the curious than of the business-like order. Sellers were more elastic in their terms than they have been of late and

slightly weaker on prices for delivery running the last half of the year. However, the closest quotations given were 18 to 18¼c. for Lake Superior ingot; 17¼ to 17½c. for electrolytic bars, etc., and 17 to 17¼c. for casting stock, according to brand and quantity.

FIG LEAD—The little showing of life to business that was displayed for a few days gave place to dullness, a few carloads only having changed hands to-day. Prices were held quite steady, however, at about 4.45c. for common domestic, early delivery. Small lots from store brought a slight advance on that price.

SPELTER—An unsettled and weak market is still to be reported. Competition between the combined smelters and other sellers is quite keen, and consumers are doing nothing that might operate to check the natural slump in values. Purchases could have been made at 6.37½ to 6.50c. for prompt delivery, and 6.25c. for near and distant future shipment.

ANTIMONY—Regulus remains firm at 10 to 11c. as to brand, and meets with a fair sale.

TINPLATE—Buying was not as good nor inquiry as broad as it has been of late. Still, very fair business for the season is taking place, and prices remain firm for all varieties of plate.

IRON AND STEEL—Pig iron for prompt delivery is scarce; very few producers are turning out any surplus, and several are sold considerably ahead. Spot delivery prices, therefore, continue high, although somewhat irregular, and near futures are held quite as high by some companies. Deliveries continue heavy and there is a very fair amount of new business. All manufactured products are very firm, in sympathy with the market for crude material, but new business is not at all lively in this quarter.—N.Y. Journal of Commerce.

THE "NEVER-BREAK" LIFTER.

The "Never-break" lifter, which is now being placed on the market by The McClary Manufacturing Co., is an entire departure from the old style cast iron and malleable lifters. They are made entirely of wire of sufficient weight to make them durable, and are "always cold." They should be a good feature to the trade handling these goods.

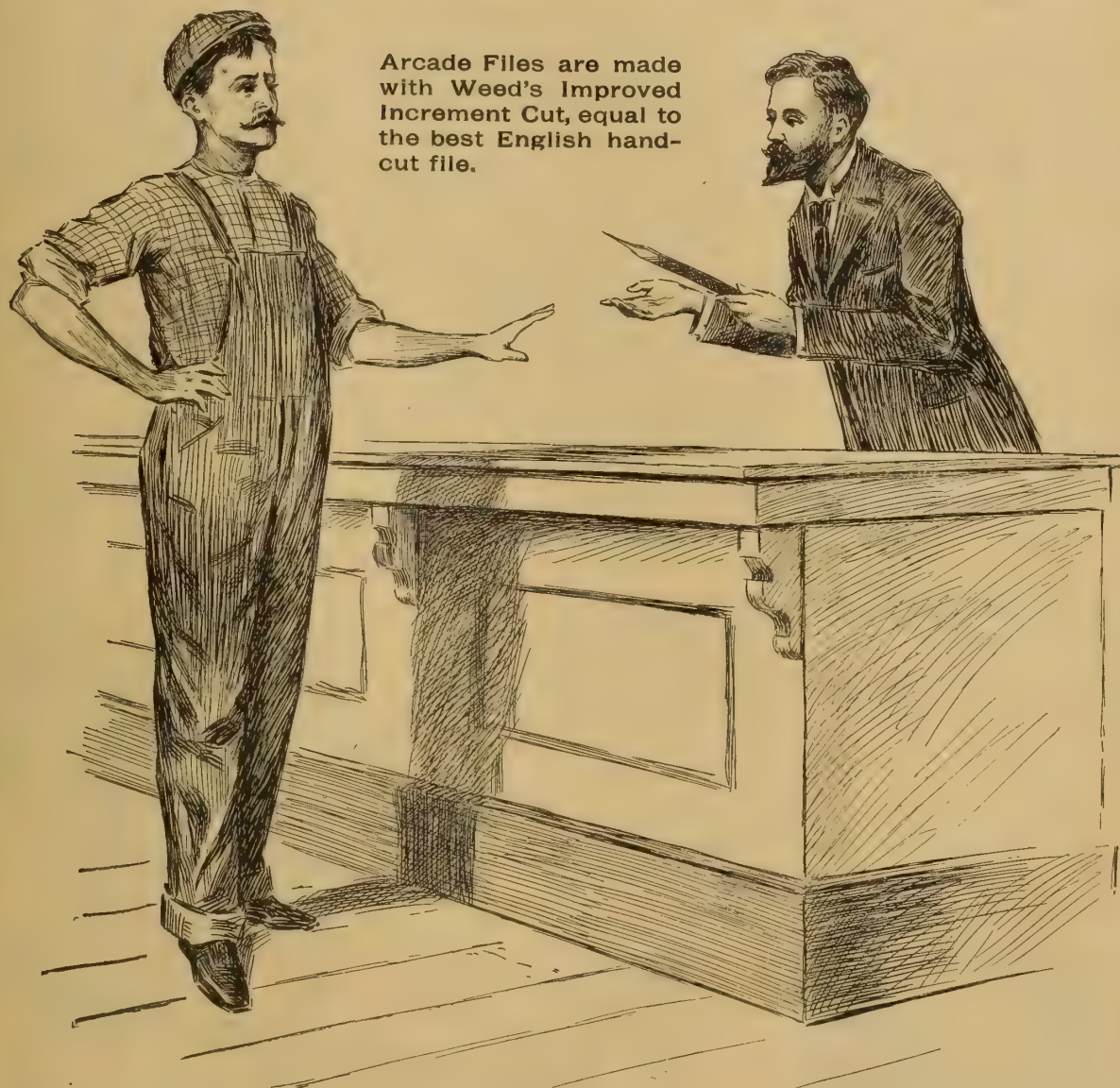
The supply of tar in Hamilton is running so low that the board of works are becoming anxious lest they should not be able to carry on all the paving work contemplated for this season.

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

There is no other file "just as good."

THE ARCADE IS THE BEST



"I want an ARCADE file."

"We are all out of ARCADE files. Try this; it is just as good."

"No, Sir. I want the ARCADE. It cuts faster and wears longer than any other file made."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
Sec. and Treas.

CHICAGO:
118 Lake Street.

ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES

QUEBEC MARKETS.

MONTREAL June 16, 1899.
HARDWARE.

THERE has been a satisfactory movement in general hardware during the past week, as buyers show a keen desire to order ahead, owing to the continued upward tendency of values. In wire, prices are steady and inquiry fair for all sorts. Staples continue active from makers' hands. The advance in wire and cut nails led to a brisker demand during the current week. Bolts and nuts have been advanced this week, and screws are still active. Rope is firm, and there are no other important features.

BARBED WIRE — There is only a moderate trade doing, and prices are unchanged on the basis of \$3, but an advance is probable in the near future.

SMOOTH STEEL WIRE—A fair inquiry is experienced at the advance, \$2.60 f.o.b. factory points.

FINE STEEL WIRE—A quiet trade is reported and discounts are unchanged at 25 per cent.

GALVANIZED WIRE — There is a fair demand for this line, and prices are firmly held on the basis of \$3 for No. 9.

BRASS AND COPPER WIRE—In moderate request and steady at 50 and 2½ per cent. discount on brass, and 45 and 10 per cent. on copper.

FENCE STAPLES—An active movement of these from makers' hands is noted, and prices are firm. We quote: \$3.05 for bright, and \$3.65 for galvanized per keg of 100 lb.

OTHER STAPLES—Without change. Discounts are: Cooper, 55c.; poultry netting, 45, and electrician, broom, bed, etc., 40 per cent. off.

WIRE NAILS — Inquiry for these is brisker, and larger quantities of goods are moving. We quote the base price, \$2.60 f.o.b. Discounts on the miscellaneous list are 75 and 5 per cent.

CUT NAILS — Inquiry has been more active, both on prompt and forward account since the rise. We quote \$2.15 per keg f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.B.

HORSE NAILS — There is a moderate

trade doing, and discounts are 50 per cent. on standard, and 50 and 20 on Acadia.

HORSESHOES—There is a moderate movement in these. We quote as follows: Iron shoes, light and medium pattern, No. 2 and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; feather-weight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

TACKS — In fair inquiry. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS — As last reported: discounts in dozens 85 and 10 per cent., and in bulk 40 per cent.

SCREWS—There is a good jobbing inquiry for these. We quote: Flat head, bright,

"WHITE MOUNTAIN" ICE CREAM FREEZERS

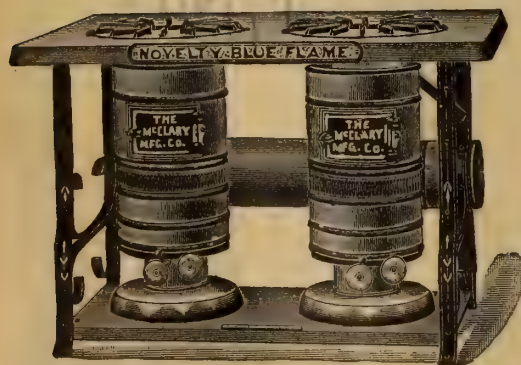
Acknowledged to be the best made.

Triple motion.

Has Duplex Dasher with double self-adjusting wood scraping bar.

Cream can be frozen in **four** minutes.

14 sizes from 1-quart to 25-quarts.



"BLUE FLAME" WICK OIL COOKING STOVES.

Two and three burners. Safe and durable.

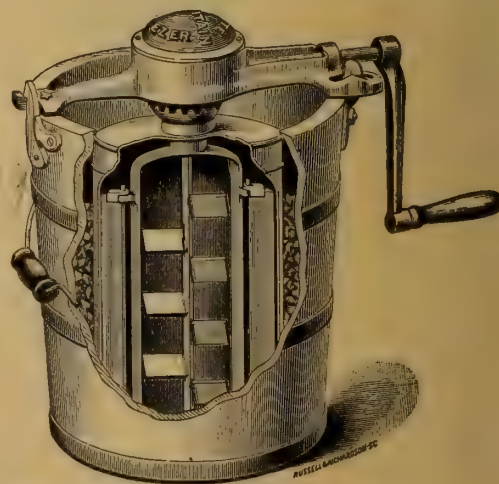
Burns with a clear, blue flame and a heat of the greatest intensity.

Number of Burners, 2	3
List Price, each, \$10.40	\$14.00

Baking ovens, extra.

Order a sample.

If you want your orders filled quickly, order from McClary.



The McClary Manufacturing Company

LONDON

TORONTO

MONTREAL

WINNIPEG

VANCOUVER



Large workers in galvanized iron use two makes: Apollo for fine; another for rough.

Mistake. Apollo is best for rough work too.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
ROMAN
KEENE'S**

Bricks .. { **FIRE
BUILDING
PAVING**

Sand ... { **SILICA FIRE
MOULDING
BUILDING**

F. HYDE & CO.

31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
Second Pressure

In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.

LIMITED

B. & S.H. THOMPSON & CO.

Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,

Manufacturers of

Limited

CHARCOAL Pig IRON

MONTREAL.

BRAND "C.I.F." THREE RIVERS

PLANTS AT

Radnor Forges, Que.
Lac a lac Tortue.

Three Rivers.
Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

82½ and 5 discount; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—There has been an advance in this line in sympathy with the appreciation in all other material. Discounts now are: Carriage bolts, 5-16 and smaller, 57½, per cent.; ¾ and up, 52½ per cent.; full square bolts, 67½ per cent.; machine bolts, 57½ per cent.; coach screw bolts, 72½ per cent., and sleighshoe bolts, 72½ per cent.

NUTS—Square and hexagon bolts of all kinds have been advanced ½c. per lb.

RIVETS—Firm. Discounts now are: Black and tinned, 50 per cent.; ditto burrs, 45 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE—There is a firm feeling on rope. We quote as follows: Manila, 11c. for 7-16 and up; 11¼c. for ¾, and 12c. for ¼ and 5-16. Sisal, 10½c. for 7-16 and up; 11c. for ¾, and 11½c. for ¼ and 5-16. Binder twine: Pure manila, 10½c.; 550 feet, 10c.; sisal, 500 feet, 9½c.

SHOT—Steady, at 6c. for ordinary and 6½c. for chilled.

CEMENT—There is a good inquiry for small lots of cement, and prices are firm. We quote: Belgian, \$1.90 to \$2.10; English \$2.30 to \$2.40, and German, \$2.45 to \$2.65, per cask ex wharf.

FIREBRICKS—In good request at former quotations, \$12 to \$23 per 1,000 ex wharf.

METALS.

All kinds of heavy iron material still point upwards, and, as will be noted in our editorial columns, the rise in many leading lines of iron material since May 1 has been phenomenal, and they are all the more remarkable when the advances previous to that date are taken into account. In metals, no striking changes have resulted.

PIG IRON—This material has advanced, and contracts have been placed for Hamilton pig at \$20.50 to \$21 per ton, and the outside figure is not generally quotable.

BAR IRON—This staple is firm at the rise, with an active inquiry, both from first and second hands. Car load lots are moving freely at \$1.90.

BLACK SHEETS—There is a good trade doing in these. Prices are: 10 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25, and 28, \$2.30.

HOOP IRON—Steady, at \$2.70.

STEEL—Firmly held at the recent advance. We quote: Sleighshoe and tire, \$2.50; spring, \$2.70; machinery, \$3, and toe calk, \$3.

HORSESHOE IRON—Steady, at \$2.15 per 100 lb.

GALVANIZED IRON—An active demand is noted for this article. Round lots of Queen's

**SHEET IRON
STEEL**

All grades for import
at closest prices.

A. C. LESLIE & CO.

MONTREAL.

Sanderson's Cast Steel in stock.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

**NO NAILS
JUST BORE**

**NO SCREWS
FOUR HOLES**

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.
96 x 24 x 16 oz.

GALVANIZED SHEETS

"Junata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

Head are obtainable at \$4.55, but for smaller quantities prices are firmer, at \$4.75 to \$4.80. Comet brand, according to quality, ranges from \$4.30 to \$4.55.

INGOT COPPER—There is no change in this metal, which is quoted in a jobbing way at 19½ to 20c.

INGOT TIN—Some inquiry is noted, while prices are steady at 30c.

PIG LEAD—Quiet and featureless at \$4.25.

LEAD PIPE—A fair trade is doing. We quote: 7c. for ordinary, and 7¼c. for composition waste, with 17½ per cent. discount.

IRON PIPE—Despite the fact that American pipe cannot be laid down within several cents per lb. of what is asked for domestic, there is no change in the latter article, as jobbers are freely filling orders at last week's figures. We quote: Black pipe, ¾ and ¾-inch, \$2.98; ½-inch, \$2.95; ¾-inch, \$3.55; 1-inch, \$4.90; 1¼-inch, \$6.50; 1½-inch \$8.25, and 2-inch, \$10.50. Galvanized pipe, ¾ and ¾-inch, \$5.64; ½-inch, \$6.64; ¾-inch, \$7.41; 1-inch, \$10.12; 1¼-inch, \$14.03; 1½-inch, \$17.16, and 2-inch, \$23.

CANADA PLATES—There is no change in these and prices are steady. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4 for 52's.

TINPLATES—A good trade is noted in these, and prices are 25c. higher all round. We quote as follows: Coke, I.C., \$3.50; charcoal, I.C., Allaway or Comet brands, \$3.75; do. I. X., \$4.50; Lincoln, \$4; P. D. Crown, \$4.25; do. I. X., \$5.25; Bradley's, \$6.05.

TERNE PLATE—There is a firm feeling in terne plate, and prices are stiff on the basis of \$6.25.

COIL CHAIN—Quiet, but firm. We quote: No. 6, 10½c.; No. 5, 9c.; No. 4, 8c., and No. 3, 7c. per lb.; ¼-inch, \$5.75; 5-16, \$4.50; ¾, \$4; 7-16, \$3.55; ½, \$3.75; 9-16, \$3.70; ¾, \$3.60; ¾, \$3.40, and ¾, \$3.30 per 100 lb.

SHEET ZINC—Fairly active and steady at 8 to 8¼c.

ANTIMONY—Without change at 10 to 11c.

SPELTER—Steady on the basis of \$7.

GLASS.

Business in window glass has been rather quieter this week, but prices are firmly held. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Business in this department is assuming narrower proportions, but is still of fair volume. Leads and paints continue firm,

and inquiry for them is better than usual at this time of the year. In oils, linseed has advanced 2c. per gal. to 54 to 55c. for raw, and 57 to 58c. for boiled. This is due to light stocks and a good inquiry. Turpentine has declined another 2c. per gal. to 61 to 62c., as a result of further weakness at primary markets and increased supplies here.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.50.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6½c.; in oil, pure, 9c.; No. 1, 7½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—Raw, 54 to 55c.; boiled, 57 to 58c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 61c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COD OIL—37½ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Galvanized iron has been marked up from 5 to 10c.

A new scale of discounts has been issued on bolts of all sorts.

Linseed oil has been advanced 2c. per gallon over last week's basis.

There has been another decline in turpentine of 2c., making 3c. for the fortnight.

All kinds of tinplate, both coke and charcoal, are 25c. higher than last week.

American makers have issued a new file list, and Canadian makers adopted it this week.

Oakey's

The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL.

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO - MONTREAL.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.



IRON AND BRASS

Pumps

Force, Lift and Cistern Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDUGALL CO., Limited
Manufacturers, Galt, Canada.

E. T. WRIGHT & CO.

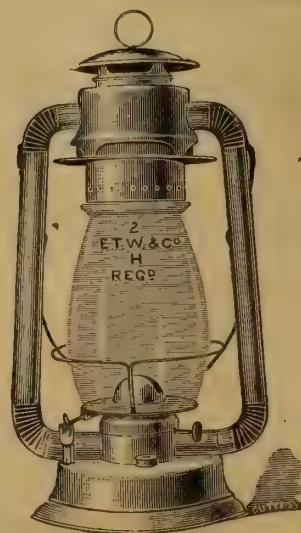
Hamilton, Canada.

"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.

Send for new Catalogue.



ONTARIO MARKETS.

TORONTO, June 16, 1899.

HARDWARE.

THE past week has not been marked by many changes in prices. The principal change is in bolts and nuts, which have been marked up 5 to 10 per cent. The general tone of the hardware market continues strong as to prices. The volume of trade is good, the demand being probably brisker than it was a week ago. The demand for such seasonable lines as hinges, harvest tools, screen doors and windows, green wire cloth, and garden tools exceeds the supply. Wire nails are in rather better demand, and prices are firm at the recent advance. There is a fair demand for smooth steel wire and galvanized wire. The screw, bolt, and rivet trade continues good. A fair number of wringers and churns are going out. Building paper is in moderate demand.

BARBED WIRE—Business is moderate and prices unchanged. We quote \$3.25 to \$3.30 per 100 lb. Plain twist is quoted at the same figure.

SMOOTH STEEL WIRE—Business is good, particularly in oiled and annealed. We quote \$2.60 f.o.b. factory point.

GALVANIZED WIRE—A good trade is being done in galvanized wire. We quote: Nos. 6, 7, 8 gauge, \$3.40; No. 9, \$2.90; No. 10, \$3.50; No. 11, \$3.55; No. 12, \$3.05; No. 13, \$3.15; No. 14, \$3.90; No. 15, \$4.50; No. 16, \$4.65.

WIRE NAILS—The demand is brisk and rather better than it was a week ago. The market is decidedly strong at \$2.65 base f. o. b. Toronto, and as nails could not be made at this figure, at the present market price of nail wire, another advance before a great while is likely.

CUT NAILS—The demand for these is only moderate. The base price is unchanged at \$2.15, f.o.b. Toronto, Hamilton and London.

HORSE NAILS—Business is still quiet. We quote as follows: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—Very little doing. We quote f. o. b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—Business continues good and prices unchanged. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head

Fireproof Building Materials

OUR METALLIC CORNICES, SHEET METAL FRONTS, ETC.

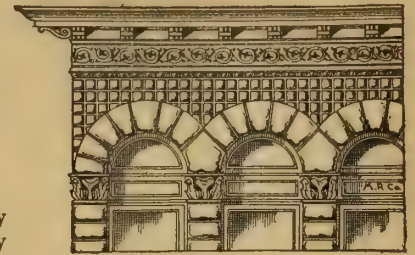
are both artistic and economical. They offer unique advantages, being very easily handled and applied, and giving durable protection from dampness, as well as heat and cold.

We make any size, pattern or shape desired in cornices, and have full lines in METAL FRONTS to meet every requirement—either for new buildings, or improving old ones.

If you're not posted, send for our catalogue, it gives full information, and will interest you.

THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.



brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—There is an all-round change, prices being from 5 to 10 per cent. higher than last week. We quote as follows: Norway bolts, full square, 67½ per cent.; common carriage bolts, 5-16 and under, 57½ per cent.; ditto, ¾ and larger, 52½ per cent.; ditto, full square, 67½ per cent.; machine bolts, all sizes, 57½ per cent.; coach screws, 72½ per cent.; sleighshoe bolts, 72½ per cent.; blank bolts, 57½ per cent.; bolt ends, 62½ per cent.; nuts, square, 4c.; nuts, hexagon, 4½c.; tapping nuts, 60 per cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent.

RIVETS AND BURRS—Business continues fairly good. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 50 per cent.; iron burrs, 45 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Trade is fairly good, but some difficulty is experienced in getting supplies. We quote: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand, 9½c. per lb.; Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Business is fairly active.

We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—A nice, seasonable trade is being done. We quote as follows: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f. o. b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

BUILDING PAPER—Trade is moderate and without special feature. We quote: Plain building, 28c. per roll; tarred lining, 35c., according to quality; tarred roofing felt, \$1.40 per 100 lb.; carpet felt, \$2.25 per 100 lb.

GREEN WIRE CLOTH—The demand exceeds the supply. Price is unchanged at \$1.50 per 100 square feet.

POULTRY NETTING—A fair quantity going out. Discount, 50 and 5 per cent.

SPADES AND SHOVELS—While trade is not brisk there is a fair movement. Discount is unchanged at 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—Trade is brisk, and the demand still exceeds the supply. Discount, 60, 10 and 5 per cent.

CEMENT—A good trade in Canadian Portland is reported, as the demand is brisk and little imported is arriving. Prices are unchanged. We quote in barrel lots: Canadian Portland, \$2.65 to \$2.90; English do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

The metal market continues to rule firm, with pig iron still tending upwards.

PIG IRON—The market is still a strong one. Prices have further advanced, according to cable reports, in both Glasgow and Middlesboro', and some sellers in the United States are asking higher prices. We quote No. 1 Hamilton iron at \$18.50 to \$19 at the furnace.

BAR IRON—The mills are still busy, and dealers are doing a good trade. The base price for ordinary lots is \$1.90 to \$1.95.

BLACK SHEETS—Are in good demand. Prices are firm, and it is difficult to get supplies from makers in the United States. Prices range from \$2.40 for 18 gauge to \$2.85 for 28 gauge.

GALVANIZED IRON—The demand is brisk, and rather more so than a week ago. We quote: "Queen's Head" and "Gordon Crown" brands at \$4.75 for 28 gauge, and American makes at \$4.60.

COPPER—Trade is moderate in ingot copper, and sheet and bar copper are moving fairly well. Prices are unchanged, ingot being quoted at 19 to 19½c. per lb., sheet 23 to 23½c., and bar at 23½ to 25c. Copper is £1 dearer in London than it was a week ago.

BRASS—Trade continues good and prices firm.

PIG TIN—The English market was cabled a little easier on Wednesday, but New York remains firm. Locally, trade is fair and prices unchanged at 29c. for Straits, and 30c. for Lamb and Flag.

TIN PLATES—Prices are advancing, and trade is steady.

CANADA PLATES—Business is still of small proportions. We quote: All dull, \$2.70 per box; half-polished, \$2.60; all bright, \$3.10 per box.

LEAD PIPE—Trade keeps fair. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—Prices are firm in the United States, and business there is a little brisker.

Locally, business is quiet and prices unchanged, at 4¼ to 4½c. per lb.

IRON PIPE—There is a good movement, and prices are firm, with an upward tendency. The discount on 2½ to 6-inch pipe is now 50 per cent. We quote as follows: ¾ to ¾ inch, \$3.10; ½ inch, \$3.25; ¾ inch, \$3.80; 1 inch, \$5.25; 1¼ inch, \$7; 1½ inch, \$8.75; 2 inch, \$12; 2½ to 6 inch, discount 50 per cent. Galvanized pipe: ½ inch, \$6; ¾ inch, \$7.50; 1 inch, \$10.50; 1¼ inch, \$14.75; 1½ inch, \$18.50; 2 inch, \$26.

RANGE BOILERS—Are firm at the recent advance with the demand good. We quote as follows: Galvanized, 30 gals., \$9; 35 gal., \$10; 40 gal., \$11. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Quiet. We quote: ¼ in., \$6.90; 5-16 in., \$4.40; ¾ in., \$4; 7-16 in., \$3.80; ½ in., \$2.75; ⅝ in., \$3.55; ¾ in., \$3.45.

SHEET ZINC—Trade is quiet at 8¼c. for cask lots and 8½c. for small lots.

SPELTER—There is not much doing. The market is unsettled in New York, owing to the competition of smelters outside the combination. Local quotations are unchanged at 7½ to 7¾c. per lb.

SOLDER—Trade is good and prices unchanged. We quote: Half and half, 17c.; refined, 16½c.; wiping, 16c.

ANTIMONY—Trade is still quiet. Prices are unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

A brisk sorting trade is reported by jobbers, all lines moving even better than during the last week or two. There is a brisk demand for turpentine and oil. Prepared paints, varnishes, colors, and sundries are all moving freely. Though paris green is still quiet, the demand for it is improving. A general firmness in prices is noted. Linseed oil was advanced 2c. early in the week. Turpentine is higher in the primary market, but local jobbers have not changed their prices. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whiting, 85c.

GUM SHELLAC—In cases, 24c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 56c.; boiled, 1 to 4 barrels, 55c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 61c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

GLASS.

As nothing is arriving to replenish stocks, and as a steady demand is noted, jobbers find it daily more difficult to fill orders. Prices are firm, but unaltered. We quote: Star, first break in 50-foot boxes, \$2, and in 100-foot boxes, \$3.75; double diamond under 25 united inches, \$6, Toronto



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

Binder Twine Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.
LONDON, ONTARIO.

Hamilton and London; terms 4 months or 3 per cent. 30 days.

OLD MATERIAL.

Prices throughout are firm, though no change is noted. We quote as follows: Agricultural scrap, 50c. per cwt.; machinery cast, 55c. per cwt.; stove cast scrap, 40c.; No. 1 wrought scrap, 50c. per 100 lb.; new light scrap copper, 12c. per lb.; bottoms, 11c.; heavy copper, 14c.; light scrap brass, 7c.; heavy yellow scrap brass, 9c.; heavy red scrap brass, 10c.; scrap lead, 2½c.; zinc, 3c.; scrap rubber, 4c.; good country mixed rags, 65 to 75c.; clean dry bones, 45 to 50c. per 100 lb.

PETROLEUM.

Business is dull. Prices are unaltered. We quote in barrels, Toronto, as follows: Canadian, 14c.; Sarnia prime white, 14c.; Sarnia water white, 15c.; photogene, 15½c.; American water white, 16½c.; Pratt's astral, 18c.

COAL.

There is a moderate demand. Prices are steady. We quote anthracite at Buffalo and bridges: Egg, stove and nut, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

HIDES, SKINS AND WOOL

HIDES Deliveries continue good. Prices are steady. We quote cowhides: No. 1, 8¼c.; No. 2, 7¼c.; No. 3, 6¼c. Steer hides are worth ½c. more. Cured hides are worth 9c.

SKINS—Calfskins are firm. Lambskins are 5c. dearer. A good business is opening up. We quote: No. 1 veal, 8-lb. and up, 9c. per lb.; No. 2, 7c.; dekins, from 30 to 35c.; culls, 15 to 20c. Sheepskins are worth 90c. to \$1, and lambskins, 25c.

WOOL—A good business is reported. Prices are steady at 13c., and unwashed, 8c.

MARKET NOTES.

Linseed oil has advanced 2c.

Bolts and nuts are 5 to 10 per cent. higher.

Radiators, both for steam and hot water, are about 10 per cent. dearer.

The price of Brown's adjustable pipe tongues has been advanced about 35 per cent.

AMONG TORONTO RETAILERS.

A Good Scheme.

I saw a good idea in a country hardware store the other day.

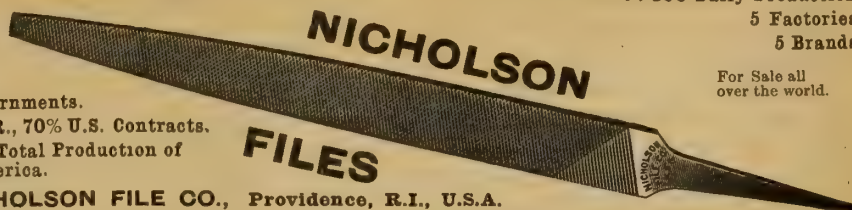
The merchant has an excellent business in a town of about 1,200, his trade depending almost entirely on farmers in the adjacent country. His trade has always entailed more or less credit, but during the past year he has made a movement towards a solely cash trade. As the farmers have always been used to the credit system it was not thought advisable to make the

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production
5 Factories
5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass. Also of a durable, highly-polished material called "MARBLETT," suitable for Advertising Tablets, Signs, Facias, Direction Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. Benders, Embossers, Brilliant Cutters, etc., etc. Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

change from credit to cash in one step. But every effort is made, nevertheless, to induce customers to do business on the cash basis. One of the most useful helps to this end is a series of display cards in use in the store. They are about 6 in. deep and 2 ft. long, and bear in large type the statement, "Our Terms Cash." The merchant told me that these cards were of great value in increasing the cash business. Though the idea is a simple one, it should be of considerable interest to a merchant endeavoring to increase his cash business.

Ready for Everything.

I came in touch this week with a clerk who must be as valuable to his employer as he was to me when I met him. During a short bicycle tour I had the misfortune to wrench the valve out of my front tire. This necessitated a walk (which I don't intend to talk much about). Anyway, early Monday morning I had to go, before opening hour, to the house of a hardwareman to get him to fix up my wheel. As he was the only bicycle repairer in the village, my heart as well as my face fell when his wife told me he was away. It brightened, however, a moment later when she said: "But the clerk can do anything you want done." In a short time I had the clerk engaged at work on my wheel. I must confess to some anxiety as to his skill until he was well at work. But he went about the job as if he knew what to do. In regard to an inquiry as to what work he had to do in the village, he replied, smilingly: "Oh, I have to be ready for anything." An hour or two later, when I was speeding cheerfully on my wheel, I thought how much his brief answer meant. Ready for anything—whether his employer was there to oversee the work or not.

Signboards Out of Town.

That signboards are of value for advertising purposes when placed along the principal roads leading to the town is evidenced by the great number of such boards that are to be seen on most of our good highways.

From small boards 3 inches by 12 up to large signs 6 feet by 10 they are found on the way to almost every town of any importance. Some are stamped in tin, some are printed or lithographed on wood, but the best I have seen consisted of a plain board about 2 feet by 3, upon which cotton sheets are tacked, each one bearing some announcement from the firm in question. If a series such as this were gotten up weekly, and always hung on the same board, it would not be long before all those who often come to the place would regularly look at the announcements, which might be well designed to recall and emphasize the advertisement in the last issue of the weekly paper. Very little should be printed on each sign or bulletin. All the type should be almost an inch, at least, in size. The best coloring, I think, would be plain black ink on a plain white cloth. An improvement on the plain board would be one painted black, with, above the space for the announcement sheet, a notice, "Brown's weekly (or monthly) bulletin." As 12 of these would be sufficient for nearly all towns, and six would be enough for many, the cost should be light.

THE RAMBLER.

RECORD FOR PIGEON SHOOTING.

H. S. Howland, Sons & Co., agents for Schultze gunpowder, have been advised that at Florence, Italy, on May 5, the Marquis Luigi Torrigiani, in 7 hours and 18 minutes, with an expenditure of Schultze cartridges, killed 935 pigeons out of 1,000. This establishes a new world's record, and won the Marquis 5,000 francs and expenses.

THE GURNEY PICNIC.

The employes of The Gurney Foundry Co., Limited, Toronto, intend holding their annual picnic on Saturday, June 24. They will visit Niagara Falls this year. A big time is expected.

Crops in the Portage la Prairie, Man., district are looking well, the wheat especially presenting a fine appearance. Oats and barley are not yet all in.

MANITOBA MARKETS.

WINNIPEG, June 12, 1899.

THE week has been uneventful. Business continues good. Collections are improving somewhat, and building operations are being pushed with great vigor. The arbitration committee for the carpenters' strike has held two sessions but so far nothing is given to the public.

The camping season is approaching and the windows of retail houses are profusely decorated with hammocks, chairs, camp-stoves, and, in fact, prospectors' and campers' outfits of all degrees of utility and comfort. There is a great deal of quiet prospecting going on in the Lake of the Woods and Rainy River districts, and also much development work. The people seem at last to have got past the talking stage and have gone to work systematically to develop the country.

Barn building of which there will be a great deal this summer is hardly yet under way, owing to the late spring having retarded regular farm work.

The growth of the last few days has been phenomenal and wheat is reported 15 to 16 inches high in the Carman district.

The price list for the week shows some very slight changes:

Barbed wire, 100 lb.	\$3 75
Plain twist	3 50
Staples	4 25
Oiled annealed wire.	10 2 90
"	11 3 00
"	12 2 85
"	13 3 00
"	14 3 10
"	15 3 60
Wire nails, 30 to 60 dy, keg.	3 10
" 16 and 20	3 15
" 10	3 20
" 8	3 25
" 6	3 30
" 4	3 50
" 3	3 75
Cut nails, 50 and 60 dy.	2 55
" 20 to 40	2 60
" 10 to 16	2 65
" 8	2 70
" 6	2 75
" 4	3 00
" 3	3 25
" 3 fine	3 55
Horsenails, 45 per cent. discount.	
Horseshoes, iron, No. 0 to No. 1.	4 25
No. 2 and larger	4 00
Snow shoes, No. 0 to No. 1.	4 70
No. 2 and larger	4 40
Steel, No. 0 to No. 1	4 70
No. 2 and larger	4 45
Extra light	5 65
Bar and band iron, \$2.30 basis	
Swedish iron, \$5 basis.	
Tool steel, Black Diamond, 100 lb.	8 75
Jessop	12 75
Sheet iron, black, 10 to 12 gauge, 100 lb.	3 25
14 to 26 gauge.	3 50
28 gauge.	3 60
Galvanized American, 16 gauge.	4 25
18 to 22 gauge	4 50
24 gauge.	4 75
26 gauge.	5 00
28 gauge.	5 25
Genuine Russian, lb.	12
Imitation "	8
Tinned, 24 gauge, 100 lb.	7 55
26 gauge	8 80
28 gauge	8 00
Tinplate, 1C charcoal, 20 x 28, box	9 00
" IX	11 00
" IXX	13 50
Ingot tin.	31
Canada plate, 18 x 21 and 18 x 24	3 25

Sheet zinc, cask lots, 100 lb.	8 50
Broken lots	9 00
Pig lead, 100 lb.	4 25
Wrought pipe, black up to 2 inch.	50 p.c.
Over 2 inch.	50 and 10 p.c.
Rope, sisal, 7-16 and larger.	11 00
" 3/4	11 50
" 1/2 and 5-16	12 00
Manila, 7-16 and larger	12 00
" 3/4	12 50
" 1/2 and 5-16	13 00
Solder	19
Cotton, all sizes, lb.	15
Axes, per box	\$5.50 to 8 00
Screws, flat head, iron	80, and 5 p.c.
Round "	70 and 10 p.c.
Flat " brass	70 and 10 p.c.
Round "	65 p.c.
Bolts, carriage 5-16 and smaller.	52 1/2 p.c.
3/4 and larger	47 1/2 p.c.
Machine	52 1/2 p.c.
Tire	60 and 10 p.c.
Sleigh shoe.	65 p.c.
Rivets, iron.	50 p.c.
Copper, No. 8, lb.	33 1/2 c.
Spades and shovels.	
Harvest tools.	60 to 60-10 p.c.
Axe handles, turned, s. g. hickory, doz.	\$2 50
No. 1.	1 50
No. 2.	1 25
Octagon extra.	1 65
No. 1.	1 25
Linseed oil, raw, per gal.	57
" boiled	60
Ammunition, cartridges, Dominion R.F.	50 p.c.
Dominion, C.F., pistol	25 p.c.
" military	15 p.c.
American R.F.	35 p.c.
C.F. pistol	5 p.c.
C.F. military.	Net.
Loaded shells, Robin Hood, M	\$20 00
Eley's soft, 12 gauge.	15 00
chilled, 12 gauge.	16 50
soft, 10 gauge.	20 00
chilled, 10 gauge.	21 00
American, M.	16 25
Shot, Ordinary, per 100 lb.	6 50
Chilled.	7 00
Powder, F.F., keg.	4 75
F.F.G.	5 00
Robin Hood	10 00
Tinware, pressed, retinned.	70 and 12 1/2 p.c.
plain	70 and 20 p.c.
Granite ware, according to quality.	70 and 10 p.c.
Turpentine, by barrel.	7 20 c.
Less than barrel.	75 c.

WINDOW GLASS

Stocks arriving in good condition.
Well assorted stock on hand. Send
in your orders before stocks get
broken up and price advances.

EXTERIOR LEAD

The leader in the lead market as a
money-maker and splendid results.
Send for booklet.

A. Ramsay & Son
MONTREAL.

SUPERIOR TO ALL OTHERS

Banner Cold Blast Lanterns
Victor Acetylene Bicycle Lamps
Brilliant Light, Wind Proof

For sale by the trade generally from
the Atlantic to the Pacific.

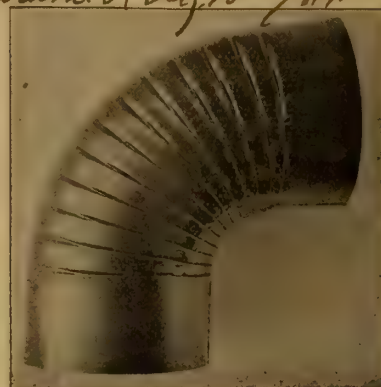
Manufactured by

THE ONTARIO LANTERN CO.

Hamilton, Ont.

(25)

Returned Aug. 10th 1899.



ELBOWS

Our Standard Pleated Elbows
are made on our Patent Elbow
Machine (Patented U. S. and
Canada) and this year will be
made from Blue Steel giving dark
finish. We are also introducing
a new feature in crating these
goods that will ensure safe de-
livery. These are the elbows
that fit any pipe, do not catch the
dust, or impede the draft; made
strong and neat.

The Thos. Davidson Mfg. Co.
Limited
MONTREAL

McLaskill, Dougall & Co
Time Varnish & Japan
Manufacturers
Montreal
Price Lists on application

TRADE CHAT.

The old bending factory at Aylmer, Ont., is being remodeled.

A new engine has been installed in the electric light works in Ridgetown, Ont.

Beginning early in July, a new line of steamers is to run between Montreal and Bordeaux.

Over 25,000 grain cars have been despatched from Midland, Ont., elevators already this season.

C. A. Baskerville, hardware merchant, Winnipeg, intends erecting a new store adjoining his present premises.

F. W. Weir, hardware dealer, Winnipeg, is contemplating the erection of a large store near his present site on Main street, near Logan avenue.

In spite of the cold, backward weather, farming in Prince Edward Island is well advanced, and many have all the grain in and potatoes well under way.

James Robertson, manager of the Hudson Bay Company's store, at Portage la Prairie, Man., has secured a position in the Winnipeg store of the same company.

The lead at J. B. Nelly's mine at Lake Catcha is said to be one of the richest ever struck in Nova Scotia. It is four feet wide and shows gold in great abundance.

Wm. Armstrong, lumber dealer, Portage la Prairie, Man., has taken into partnership H. L. Elliott, formerly with G. B. Housser & Co. The new firm will be known as Armstrong & Co.

Receipts at the Montreal Custom House last month were \$684,375, which is \$82,000 more than those of same month, 1898. In Toronto the receipts were \$373,393, as compared with \$307,026.

A preliminary statistical statement of the mineral production of Canada during 1898 has been issued by the Canadian Geological Survey. The total value of the metallic minerals produced is placed at \$21,622,601, while other mineral products have a value

of \$15,884,596. The grand total shows an increase of nearly 32 per cent., as compared with 1897, which year showed an increase of 27 per cent. compared with 1896.

The first crop bulletin for the year issued by the Manitoba Government shows a gratifying condition of the growing wheat plant; the area makes a very favorable comparison with that of last year, in spite of the late spring.

The Shawinigan Water & Power Co., of Montreal, are to erect an immense electric

power plant of about 100,000 horse-power capacity, to be located at the Shawinigan Falls, about 17 miles below Three Rivers, Que. Considerable machinery and equipment will be required for the undertaking.

The American Silver Plate Trust, which was formed some months ago, and which has branches in Montreal, Toronto and Hamilton, have decided to close the Montreal branch, and enlarge the Hamilton works to do the business formerly done in Montreal. The Toronto branch will be continued.

EVERYONE WHO SELLS Bicycle Sundries

should keep in close touch with this house.

All the good and desirable things you would expect in wheelmen's supplies are found in our stocks. Prices are always as close as goodness in quality will allow, and the dealer who cultivates a successful bicycle trade will look carefully into the character of his sundries.

—This is the season when inner tubes
—are in demand throughout the coun-
—try. You will be sure of getting an
—inner tube that will help to increase
—your trade when you order from
—us Goodrich inner tubes.

You are impressed with the fact that the most critical riders are of the one opinion that a single tube tire is the best tire, and that Goodrich Res-flex Single Tube Tires are the best single tube tires. Men like McLeod, Canada's champion racer, will have no other. This is Canadian headquarters for Goodrich tires.

American Tire Co., Limited
164-166 King St. West, TORONTO.

Standard Steel Toe Calks

Sizes of
Blunt:



WRITE
FOR
DISCOUNTS.



Sizes of
Sharp
Calks

below for
Fall of 1899:

No.	LENGTH.	SIZE.
0.....	1½ inch.....	3/8 x 5/16
1.....	1½ ".....	1/2 x 5/16
2.....	1½ ".....	9/16 x 3/8
3.....	2 ".....	5/8 x 3/8

No.	LENGTH.	SIZE.
4.....	2¼ inch.....	3/4 x 3/8
5.....	2¼ ".....	3/4 x 3/8
6.....	2¾ ".....	7/8 x 7/16
7.....	3 ".....	7/8 x 7/16

No.	LENGTH.	SIZE.
0.....	1½ inch.....	9/16 x 3/8
1.....	1½ ".....	9/16 x 3/8
2.....	2 ".....	11/16 x 7/16
3.....	2¼ ".....	3/4 x 1/2

No.	LENGTH.	SIZE.
4.....	2½ inch.....	3/4 x 1/2
5.....	2¾ ".....	15/16 x 9/16
6.....	3 ".....	15/16 x 9/16

Price, \$1.25 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

Price, \$1.50 per box of 25 lbs. in bulk.
Or 24 lbs. in 4-lb. packages.

JAMES PENDER & CO., Limited, Sole Mfrs. Saint John, N. B., Canada.

PROGRESS OF THE ALUMINUM INDUSTRY.

A SHORT account of the condition of the aluminum industry in this country has already appeared in this journal (Vol. III., p. 251). Since the date of that article very considerable improvements have been effected in the electrolytic process, and these are fully described in a paper in *The Engineer*, February 17, 1899.

No process has yet been able to compete with the electric reduction method, although several new methods of obtaining the metal have been devised. The most important of these is that described by Mr. Blackmore in a paper read before a meeting of the Society of Chemical Industry, and published in *The Journal of the society* (March, 1897). The author proposed to convert aluminum sulphide, by suspending it in a bath of fused alkaline sulphides, and passing vapor of carbon disulphide into the mixture. Either the resulting sulphide was to be reduced electrolytically, or its solution in a bath of cryolite to be treated with molten iron.

Although it was stated in the paper that experiments on an industrial scale were about to be instituted, nothing further has been published on the matter.

Meanwhile, the Heroult process (Imp. Inst. Journ., Vol. III., p. 251) has progressed considerably, the efficiency of the current having been increased in two years from 40.6 per cent. to 60.07 per cent. This improvement is more strikingly shown by the fact that, in 1890, 40 tons of aluminum were made in England and sold at £1,083 per ton, while in 1897 2,500 tons were made and sold at £148 per ton.

The decrease in the cost of production since 1890 is particularly important, since it again raises the question of the possibility of utilizing the enormous stores of corundum occurring in India.

In 1892 Prof. Chatterton, of the Madras Engineering College, called attention to this method of exploiting the Indian corundum mines, and a committee of experts was appointed by the Indian Office to report on the matter.

This committee reported unfavorably upon the scheme, pointing out that the cost of production would be 13.6d. per lb., while in Pittsburgh, U.S.A., aluminum was then made at 10d. per lb.

This estimate, however, included the cost of alumina imported from abroad, and the expense would be much less if native corundum could be used, probably 9.6d. per lb.

Samples of ore from Salem, Mysore, have been analyzed by Prof. Roberts Austen, and found to be very pure, but he had no

means of ascertaining whether these were average specimens or not.

The matter seems to be well worth further inquiry, since such success has attended Prof. Chatterton's effort to introduce aluminum in place of copper for the manufacture of cooking and other utensils among the Hindoos (Imp. Inst. Journ., Vol. IV., p. 415).

Among the new applications which have been found for aluminum, the most important is its use in place of copper for conducting electricity. The relative conductivities of copper and aluminum are 99.7 and 60.5 and the latter is, at present, 10 to 15 per cent. more expensive than the former. In spite of these disadvantages, aluminum has been employed for telephone work, and on a large scale for heavy currents at Foyers, Pittsburgh, and in Germany. The most extensive application yet made in this direction is that at the generating station of the Snoqualmie Falls Power Company, of Washington, U.S.A., where it is used to transmit a 30,000-volt current over a distance of 20 miles.

The largest outlet for aluminum, in all probability, still remains in the metallurgy of iron and steel. In foundries, the addition of from 1 to 2 lb. of the metal per ton of iron has become almost universal, and the waste is thereby reduced by about 90 per cent.

One of the great difficulties encountered in the manufacture of aluminum goods is that of joining two pieces together, no really practical method of "soldering" the metal having yet been found.

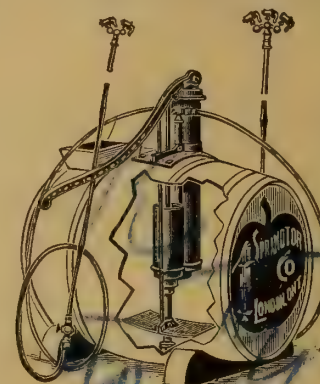
The employment of aluminum plate instead of lithographic stones is becoming more general. During last autumn an exhibition was held by the proprietors of the English patent, for preparing the metal in such a way as to take the ink kindly, and the experts present appeared to have been highly pleased with the specimens and results. From such plates impressions can be taken at the rate of from 1,500 to 1,800 per hour, they can be cleaned rapidly for fresh work, they can be used from 200 to 300 times, and 150 can be stored in the space required for a single stone.—*Imperial Institute Journal*.

PATENT REPORT.

Below will be found a list of United States patents granted to Canadian inventors on May 30th last. This list is prepared by Marion & Marion, solicitors of patents and experts, New York Life Building, Montreal: 625732, Robert S. Anderson, Toronto, Can., back-pedaling brake; 626138, Samuel W. Butterfield, Three Rivers, P.Q., log-sawing machine; 625932, Israel Kenney, Burford, Ont., boot or shoe cleaner; 625887, Paul

Lair, Lotbiniere, P.Q., engine; 626070, Thomas Mason, Montreal, P.Q., railway car axle-box; 625815, William M. Thawley, Toronto, Can., advertising sign.

All Spraying, Disinfecting, and Whitewashing can be done with THE SPRAMOTOR.



It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.

To-onto, Nov. 9, 1898. Spramotor Company, London, Ont.

Gentlemen,—The machines for spraying and whitewashing you have supplied to Dentonia Park Farm have done their work well, and are quite satisfactory. I could not have believed there was so much value in spraying fruit trees. We had a good crop of apples where our neighbors, who used no spraying apparatus, had practically none. Yours truly, W. H. MASSEY.

Certificate of Official Award.

This is to certify that at the contest of spraying apparatus, held at Grimby, on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were seven contestants, the SPRAMOTOR, made by the Spramotor Co., of London, Ont., was awarded FIRST PLACE.

H. L. HUTT, Judges.
M. PETTIT.

If you desire any further information let us know, and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies. AGENTS WANTED.

Spramotor Co., 357 Richmond St., London, Ont.
Mention this paper.

Lockerby & McComb

Manufacturers of

DOMINION BRAND TARRED FELT
SHIELD BRAND SHEATHING
GOOD LUCK FIBRE
2 and 3 PLY READY ROOFING

— DEALERS IN —

COAL TAR, ROOFING PITCH, ETC.

Factory, 144 Ann Street.

Office and Warehouse, 65 Shannon Street

MONTREAL

THE Oakville Basket Co.

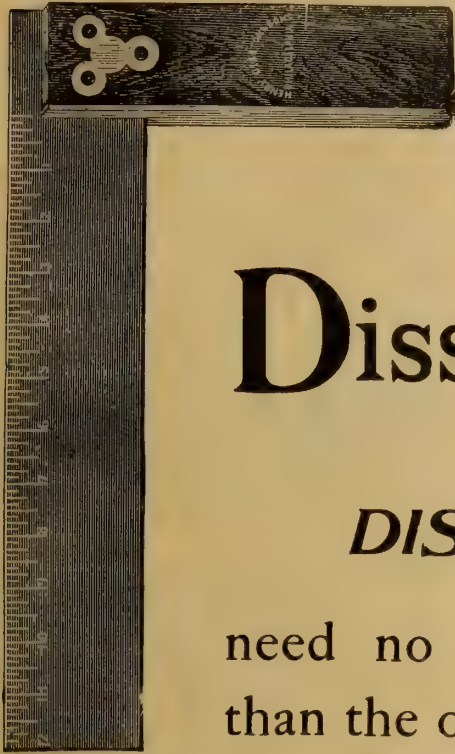
MANUFACTURERS OF



1, 2, 3 bushel grain and root baskets,
1, 2, 3 satchel lunch baskets.
1, 2, 3 clothes baskets.
1, 2, 3, 4 market baskets.
Butcher and Crockery baskets.
Fruit packages of all descriptions.

For Sale by all Woodenware Dealers.

OAKVILLE, ONT.



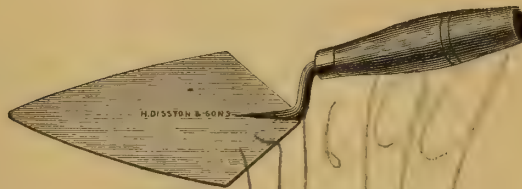
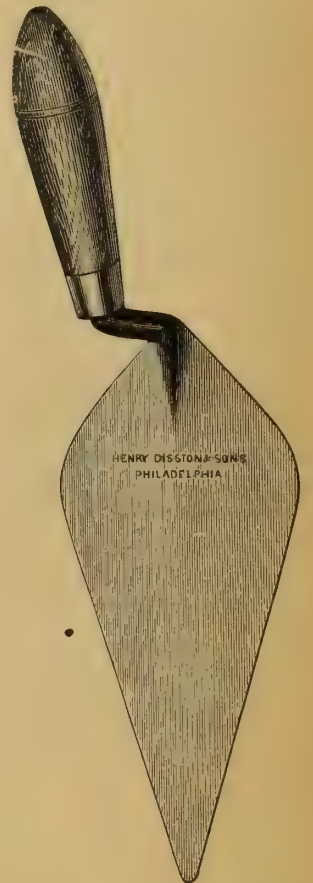
Disstons Tools

Like

DISSTONS SAWS

need no higher recommendation than the opinion of every mechanic who has used them, which is invariably

"Best in the World."



Lewis Bros. & Co.

30 St. Sulpice Street, MONTREAL.



HEATING AND PLUMBING

MILKY WATER IN THE HOT-WATER PIPES.

"The cause of the milky color in the water which comes from your boiler," says Plumbers' Trade Journal, in answer to an inquiry, "is due to a peculiarity which is common to water, that is the absorption and emission of gases. All water absorbs gases of different kinds, but some kinds more rapidly and in greater quantities than others. The lower the temperature of the water the more gas will it absorb, while the higher the temperature the less it can hold. So now you see that if you raise the temperature of water which is laden with air or other gases the water has a tendency to give off the gases in the form of little globules. Then again, the pressure effects the absorbing power of water, the greater the pressure the more gas can the water contain, and the lower the pressure the less gas it can contain. For example, clear water at the atmospheric pressure and at ordinary temperature will absorb about 4 per cent. of its volume of air. That is all. It cannot absorb any more air at that temperature and at that pressure. But it can absorb other gas and in varying quantities; for instance, at atmospheric pressure and ordinary temperature a cubic foot of water can absorb a cubic foot of carbonic acid gas without perceptibly changing the volume of the water. If, however, the pressure is increased one atmosphere, that is 15 lb., or what we would call 15 lb. by the gauge which, of course, equals 30 lb. absolute pressure in all, the cubic foot of water would be capable of absorbing another 4 per cent. of air, or 100 per cent. of carbonic acid gas. And so on it goes, with an increase in pressure there occurs an increase in absorbing power; that is what makes the pressure in soda water bottles.

"Now, let us refer back to the water in your boiler. Suppose it comes from an open reservoir, and that the water is fairly charged with carbonic acid gas and other gases, while it lies cold in the reservoir. When drawn cold from any of the faucets in the house, it appears to come quite clear, but when hot it receives the condition of giving off the gas as soon as the pressure is released, just the same as clear soda water in the bottle will appear milky and sometimes foam up and bubble violently when the cork is taken out of the bottle. When you open the hot-water faucet, this hot water, being released of pressure and overcharged with air, flows from the faucet colored like milk. It is colored by minute

globules of air or other gases. As an illustration of this, draw a glass full of water and let it stand a few minutes and you will find that it clarifies from the bottom upwards, and those minute particles which appear like chalk slowly ascend towards the surface and finally disappear. If the milky appearance is due to any other cause you will find that the color will remain fast or the particles will fall to the bottom and form a sediment or precipitate. We do not know of any plan by which the milky color can be avoided; it does no harm, anyhow, so there is little use in trying to avoid it."

THE PLUMBING SUPPLY COMBINE.

Frank J. Torrance, of Pittsburg, chairman of the temporary board of directors of The Plumbing Supply and Lead Co., incorporated some weeks ago with \$35,000,000 capital, is at present in this city in connection with the organization of the new company. It was expected that the company would be in actual operation by July 1, but delays have occurred, and it is uncertain now when the organization will be completed. Difficulty in financing has been one of the causes for the hitch, while it is understood that there has been some delay owing to outstanding contracts.

Mr. Torrance stated that options had been closed on the following companies: J. L. Mott Iron Works, New York; The Standard Manufacturing Company, Pittsburg; The Ahrens & Ott Manufacturing Company, of Louisville; The American Shot and Lead Company, itself a consolidation of eleven factories; The E. C. Stebbins Manufacturing Company, of Springfield, Mass.; Pierce, Butler & Pierce, Syracuse, N.Y.; Colwell Lead Company, of New York; Raymond Lead Company, of Chicago; E. W. Blatchford, Chicago; Geo. B. Hawley, Cincinnati; Pittsburg Supply Co., of Pittsburg; Bvick & Sherwood Co., of Detroit; Detroit Range Boiler Works, Detroit; Dawes & Wyler, New Brighton, Conn.

In addition, the company holds options on twenty-four other concerns—N.Y. Journal of Commerce.

WOULD NOT ADMIT CANADIAN PLUMBERS.

Last week the Steam Fitters' Association of the United States met in convention at Buffalo. Messrs. Jos. Wright, Wm. Mansell and W. J. McGuire, representing the Canadian Plumbers' Association, went over

from Toronto to take in the meetings, and to get pointers on associational procedure.

They were not in time, however, to get regular introductions to the convention, and when they applied for admission to the gathering the association was meeting as a committee of the whole. As these meetings are open to members only, the Canadian delegates were refused admission.

Mr. Wright, to a representative of HARDWARE AND METAL, expressed sorrow that the United States steam fitters should treat their Toronto brethren with so little fraternity.

Mr. Mansell stated that though he was sorry not to have been admitted to the meetings, it was largely a result of the fact that their request for admission was made at an inopportune time.

The Canadians were, however, treated with utmost courtesy and kindness by the manufacturers and jobbers who had displays at the meeting.

THE N.A.M.P. CONVENTION AT OTTAWA.

The indications are that the convention of the National Association Master Plumbers, of Canada, which is to be held in Ottawa on Friday and Saturday, June 30 and July 1, will be a successful one.

The delegations from Montreal and Toronto will likely be large, and, as the meeting will be open to all master plumbers, whether members of the association or not, it is probable that a good many plumbers from smaller places will take this opportunity of visiting the capital.

The executive has been called to meet at 9 a.m. Friday, and the convention will be opened by President Smith, of London, at 2.30 p.m. the same day.

The Ottawa branch of the association is making great preparations to give the visitors a welcome worthy of the city visited.

PLUMBING AND HEATING NOTES.

The stock of Fred Duclos, plumber, Montreal, is under seizure.

Narcisse Breton and Agnes Presseau have registered partnership as plumbers, under the style of Breton & Presseau, Montreal.

Miss Lizzie Wallace, daughter of Hugh S. Wallace, plumber, Hamilton, was married to Donald S. Fraser, New York, on Wednesday afternoon.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.
Ingersoll - Ontario.

JMT VALVES

The best
For all uses

Manufactured by For sale by all the trade.



*The James Morrison
Brass Mfg Co. LIMITED*
TORONTO.

SEND for specimen copy of Phillips' Monthly Machinery Register, containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum, all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, 6s. per annum, price per copy, 6d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon. England. Telegraphic address: "Machinery, Newport, Mon."

The Syracuse Smelting Works

ARE MANUFACTURERS OF

Plumbers' and Tinsmiths' Solder

of highest quality. Highest market prices paid for old Brass and Copper.

SYRACUSE SMELTING WORKS
MONTREAL.

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.

CAPITAL CITY BUSINESS COLLEGE.

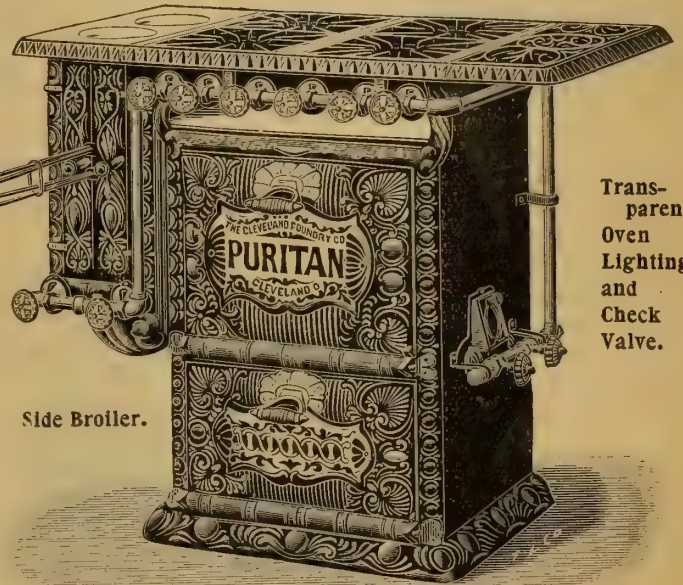
A. M. Grimes, M.A., Principal.

Shorthand, Bookkeeping, Penmanship, Telegraphy, Business Correspondence and Proofreading. Pitman's or Munson's Shorthand, per month, \$4.00. White's Phonography, per month, \$8.00. Telegraphy, per month, \$8.00. Bookkeeping and Business Practice, per course, \$35.00. Bookkeeping and Business Practice, per month, \$5.00. Penmanship, per month, \$3.00. Night School, per month, \$3.00. Private Lessons, each, \$1.00. Address, A. M. GRIMES, Principal, Cor. Bank and Sparks Sts., Ottawa.

Puritan Gas Range

This range is beautifully designed and fitted with the latest needle-pointed stop valves. With and without water heaters and side broilers. Manufactured in 20 different styles, and suitable for any kind of gas.

Secure the agency for this line of goods and bring business to your store.



Side Broiler.

Trans-
parent
Oven
Lighting
and
Check
Valve.

R. BIGLEY, Canadian Agent, Toronto, Ont.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - Toronto, Ont.

PLUMBING AND HEATING CONTRACTS.

THE John Ritchie Plumbing and Heating Co., Limited, Toronto, have the contract for alterations to the plumbing and heating in A. A. Allan's residence at 496 Sherbourne street, Toronto.

The Bennett & Wright Co., Limited, Toronto, have contracts for heating and plumbing in McConkey's new restaurant on King street west, and for plumbing, heating and ventilating a large office building on Yonge street for The Toronto General Trusts Co., Toronto.

Purdy, Mansell & Co., Toronto, have contracts for plumbing and heating in residences for Dr. Willmott on College street, for R. C. Clute on Bloor street west, for W. K. George on Glen road, Rosedale, and for McGaw and Winnett, Rosedale.

THE ART OF SELLING FILES.

It is a pity that some English manufacturers of files do not coach up their representatives in the right and proper arguments to use when speaking of their goods as contrasted with American files. Just recently, a traveler, on hearing a tool dealer say that he was buying American files, asserted that the Yankee files would not bear recutting. Surely, this was a strange argument to use to a tool dealer, because, if the files gave satisfaction to the users, the dealer would rather that they would not stand recutting. Then, again, the traveler was very anxious to prove that it was possible to use English goods after they had done duty as files for making chisels or even reaping hooks. All this style of argument was not in the least convincing to the tool dealer. I maintain that the manufacturers should have put their representative through his facings previous to sending him on a journey to compete with American firms. I have not the slightest doubt that the English files were the better, but this particular representative made a poor attempt at singing their praises. If the English manufacturer had tested his representative's selling abilities by going through an imaginary interview with him himself, perhaps his returns from the journey would have figured more satisfactorily. —Ironmonger.

TIME STAMP WANTED.

A subscriber, a wholesale buyer, writes us for information as to where he can buy a "Time Stamp." This is a machine with a clock attachment for stamping the date and time of receipt upon all letters, etc.

Can any of our numerous readers furnish us with the information? If so, will they please correspond with the Editor.

We Want Your Axe Order FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

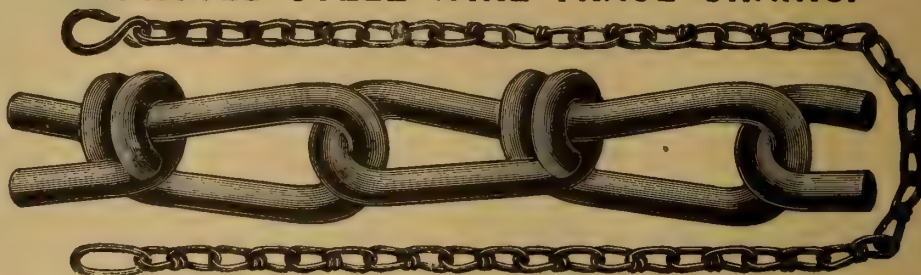
James Warnock & Co., - Galt, Ont.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

Manufactured only by...

THE STANDARD CHEMICAL CO., Limited
Factories { Fenelon Falls, Deseronto. } Gooderham Building, TORONTO

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

Syracuse Babbitt Metal

It's a Standard Quality
Lasts Longer
Keeps Cooler
Requires Less Oil

Than any other known form of . . . **BABBITT METAL.**

Manufactured only by

Syracuse Smelting Works

MONTREAL.

SYRACUSE, N.Y.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
Tinplates, Tinned Sheets, Terne Plates, Canada Plates Gal-
vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
and Steel—Hoops and Bands, Proved Coil Chain, Brass and
Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for...

Oil and Artesian Well
Pumps, Casing, Tubing
Fittings, Drilling
Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
Cable "LeVesconte" Toronto.

1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
Hammer, and all kinds of Handles. Neck Yokes,
Singletrees, and Doubletrees, Bench Saws, Exercise
Clubs, Baseball Bats, etc., etc. Do you sell any
Shaved Pattern and Octagon Axe Handles? The
largest and best trade in Canada does, because they
give best satisfaction. All stock air-dried, not kiln-
dried. If you are going to be in it, place your
order with

GARDNER BROS. & CO.**ARE YOU A BUYER of**

**Hardware, Metals,
Paints, Oils, etc.?**

Send us Post Card, and a copy of the latest
issue of **HARDWARE AND METAL**, the lead-
ing authority on these trades, will be sent to
you free by next mail. Address:

The MacLEAN PUBLISHING CO., Limited

Board of Trade, MONTREAL.
26 Front St. West, TORONTO.
109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"**

**TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
Perhaps you make as much money on the
sale of a useless Upsetter as on a good
one, but your customer does not. He
don't want a machine because it is called
an Upsetter; he wants a machine to upset
tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
HESPELER, ONT.**



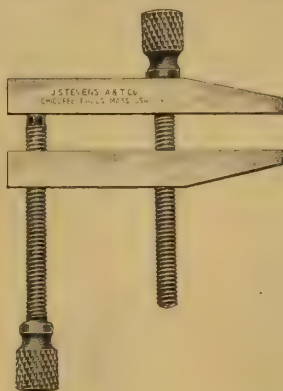
PATENTED.

Standing Seam and Slate Roof**SNOW SHOE IRONS**

No snow rails need be used unless desired.
The lugs clinch through the seam easily
but securely. Send for catalogue.

**Berger Bros. Co.,**Mfrs. of TINNERS' HARDWARE AND
ROOFERS' SUPPLIES,

Philadelphia, U.S.A.

**STEVENS FINE TOOLS**We make a perfect line
of**CALIPERS and DIVIDERS**

Also such tools as Surface Gauges, Tool Makers'
Clamps, Center Punches, etc.

Write for our New Catalogue containing a description of our Tools. It is also
a valuable hand book of information for mechanics and people interested in
such lines.

J. Stevens Arms & Tool Co.

P.O. Box 216, Chicopee Falls, Mass., U.S.A.

Carried by our representatives at Toronto and Montreal.

**CHURCH'S
POTATO BUG FINISH**

Ready For Use Dry. No Mixing Required.

The only safe way to use a strong poison.

Worth its cost as a Fertilizer. Does not injure the vines.

300 pounds net in every barrel. Price, f.o.b. Paris, \$2.75 per barrel,
or four barrels for \$10.00. Send in your orders now.

The Alabastine Company, Sole Manufacturers, Paris
Limited

HUTCHISON, SHURLY & DERRETT

**DOVERCOURT
TWINE MILLS.**

**1078 BLOOR STREET WEST,
TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
to furnish the best made goods in the market at closest prices and make
prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
Cotton and Russian Hemp Plough Lines, plain and colored.
Cotton and Linen Fish Lines, laid and braided.
Netted Hammocks, white and colored, Tennis and Fly Nets.
Skipping Ropes, Jute, Hemp and Flax Twines.**

THE DRUMMER VS. THE SALESMAN.

By S. C. Guthrie, a Commercial Traveler.

I HAVE noticed lately where the newspapers are using, and one of the prominent speakers at the T.P.A. convention, at Springfield, used, the word "drummer" as an appellation to suggest a salesman, says a writer in an exchange. To my mind those that use this word err. There is no similarity in the words, nor is there a possible suggestion of one in the other.

The drummer is one who beats a drum, either in the drum corps, the orchestra or the Salvation Army. It is a profession that requires neither thought, special mental ability or capacity. Muscular force, combined with the rhythm of sound, makes him a first-class drummer.

The salesman is an entirely different person. He must be born—not made. He must be fitted for his calling, which requires much. He must be honest, persevering and charitable. Suffering and distress should at all times appeal to him. Did you ever notice that an appeal for charity on a railroad train containing salesmen always met with a prompt response? He must have push, character and energy. His disposition must be pliable and as elastic as a rubber ball. He must bear the burdens of all, his employer as well as his customer, between whom he must always stand ready to champion justice and right. No man is bound by a higher standard than a salesman, who moulds not only his own prosperity, but that of his house; and, if a successful salesman, has a large influence in shaping the success of his customers. His life is an ever-changeable strife, restless as the ocean, and yet his wish and aim is always for that peace and quiet which comes from a home association.

We should see at every jobbing point an organization of salesmen to increase their influence for betterment and to weed out the dishonest and disreputable of their class, that they may have the proper recognition among the business world of which they are so important a part.

The rollicking salesman seldom gives any sign of the profound thought of his nature. Everyone laughs at the salesman's jokes and his smiles, but seldom realizes the care that is perhaps gnawing at his heart and wearing away nerve force. His business is to sell goods and if amusement is a necessary condiment, he uses it to its fullest extent; but there is a stronger inner-self that belongs to him and that never can be bought or sold, viz.: love for his wife, baby or sweetheart; and at last, when the order book is filled and he has his orders to come in and settle accounts for the last time—as he enters the "Golden Gate,"

Saint Peter, in the language of the poet, will say:

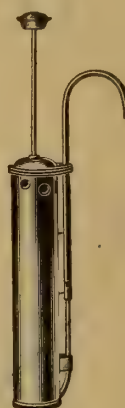
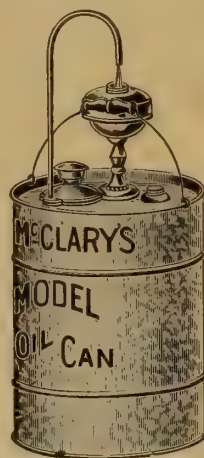
Gabriel, give him a seat alone,
One with a cushion, up near the throne;

Call up some angels to play their best;
Let him enjoy the music and rest;
See that on ambrosia he feeds—
He's had about all the hell that he needs;

It isn't just hardly the thing to do
To roast him on earth and up here too.

"MODEL" OIL CAN.

The McClary Manufacturing Co. are supplying what is known as the "Model" oil can. This is made of galvanized iron throughout, with a large screw on top, to



which is connected the pump. The entire pump and filling-tube can be removed from the tank should repairs ever become necessary, which is quite an advantage over the old style. These are neatly finished and packed ½-doz. in a crate, ready for shipment.

"LYONS" EGG-BEATER.

A new egg-beater is now being placed on the market by The McClary Manufacturing Co., London, termed the "Lyons," and is made very much on the same principle as the propeller of a steam-boat. With a slight motion, and in a short time, an egg can be beaten to the desired consistency, and gives a foam better than any other style of egg-beater known. These are packed 1 doz. in a package. The "Lyons" should have a good sale, for the principle upon which it works

can scarcely fail to appeal to the house-keeper.

**INSTRUCTING TRAVELERS.**

Manufacturers and merchants often wonder why such-and-such a new article does not sell so readily as they anticipated. To such, says a writer in an English paper, I would put the question, "Have you when sending your representative samples given him full and carefully-prepared explanatory details of the special points of the new goods which you wish him to sell?" To my own knowledge many principals hopelessly fail in this regard. Again and again when listening to a traveler introducing a new article to a customer, I have found him lacking in the necessary arguments to induce the trade to buy. Some will even say candidly, "My people have just sent me this sample, but they have not given me any explanation or printed matter about it." Two cases occur to me as I write where, after the articles had been on the market over two years, one of the travelers selling them was entirely ignorant as to their main advantages, and it was not until I pointed these out that he was able to book fair lines for them. Manufacturers and merchants continually having new articles to sell will do well to bear this experience in mind, as many really salable novelties have fallen flat owing to the travelers not having been properly posted up as to their merits.

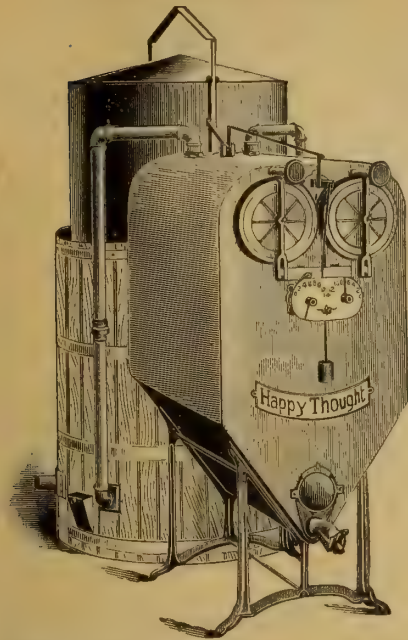
TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto to The York County Loan and Savings Co., for five detached two-storey brick dwellings of the corner of Marion street and Sorauren avenue, to cost \$9,000; to The Luxfer Prism Co., for a two-storey factory at 98 and 100 King street west, to cost \$4,000; to The Expanded Metal and Fireproof Co., for a one-storey brick factory at 94 and 96 King street west, to cost \$2,000; to D. A. Coulson, for a two-storey and attic brick dwelling at 28 Woodlawn avenue, to cost \$3,500; to A. A. Allan, for a two-storey and attic addition to 496 Sherbourne street, to cost \$4,000; to the Carnarvan estate, for alterations to 46 and 48 Bay street, to cost \$4,000; to J. S. Lawry, for a two-storey and attic brick residence near King, on Maynard, to cost \$4,500; and to S. F. McKinnon for a seven-storey brick and stone warehouse, corner of York and Wellington streets, to cost \$40,000.

VALUABLE DRUG CLERK.

"I am looking for something real nice for a young man," said the young and pretty shopper.

"Why don't you look in the mirror?" asked the gallant drug clerk, and she was so flustered that he managed to sell her four different things that she did not want before she knew what she was doing.—Michigan Tradesman.

ACETYLENE GAS.

Send for Catalogue—the best machine made—no waste or after generation—special approval from Fire Underwriters.
THE GUELPH ACETYLENE GAS CO., LIMITED
 GUELPH, ONT.

**STEEL LETTERS and FIGURES.**

If your Jobber does not keep our steel letters and figures send to us direct, we make everything in steel stamps.

HAMILTON STAMP & STENCIL WORKS

Hamilton, Ont.

D. F. Jones Manufacturing Co. Limited, of Gananoque, Ont.

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND

WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Best Crucible Steel.

MCCLELLAN FILES

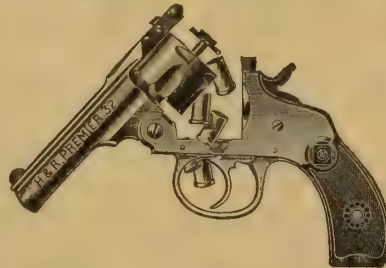
Fully Warranted



Sold by **CANADA HARDWARE CO., LIMITED, MONTREAL**, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of

High Grade

REVOLVERS

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO.,

Gooderham
Building.

Toronto



Geo. D. Wood & Co.

WINNIPEG, MAN.

Importers of and Dealers in

**SHELF AND
HEAVY**

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now **complete** in seasonable lines. **Prompt** shipment.

Letter orders receive **special** attention.

The "SAFETY"

ACETYLENE GAS MACHINE

manufactured by

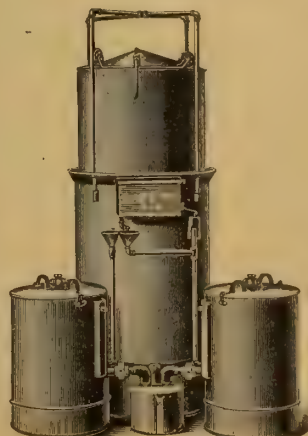
The Safety Light & Heat Co.

DUNDAS, ONT.

What some of our friends say of us :

Dear Sirs,—I have much pleasure in testifying to the efficiency of the Acetylene Gas Generator which you manufactured and placed in my house. We have now had the same in use for four or five months and are very much pleased indeed with the light which we obtain from this new kind of gas. It is a beautiful, clear, white light. The flame is small, but it is exceedingly brilliant. We may add that the time taken by the attendant for charging the generators is very small indeed, in fact we often go several days without charging the same at all. I have great pleasure in recommending your firm to any person who may desire this new gas. Especially do we think it is good for towns and country places where people have not access to public gas plants and hence require their own private apparatus.

FRED RICK W. WATKINS, Departmental Store,
18 to 24 James St., South, Hamilton.



THOS. GOLDSWORTHY & SONS

MANCHESTER, ENGLAND.

EMERY { Cloth Corn Flour

We carry all numbers of Corn and Flour Emery in 10-pound packages, from 8 to 140, in stock. Emery Cloth, Nos. OO., O., F., FF., 1 to 3.

JAMES HUTTON & CO., Wholesale Agents for Canada, **Montreal.**

CURRENT MARKET QUOTATIONS

June 16, 1899.
These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 23 0 30
Straits 0 23½ 0 29

Tinplates.

Charcoal Plates—Bright. Per box.
M.L.S., equal to Bradley. \$5 50
I.C., usual sizes 6 75
I.X., 8 00
I.X.X., 8 00
R. & Co., 5 50
I.C., 6 75
I.X., 8 00
Famous—
I.C., 5 50
I.X., 6 75
I.X.X., 8 00
Raven & Vulture Grades—
I.C., usual sizes 4 25
I.X., 5 00
I.X.X., 5 75
I.X.X.X., 6 50
D.C., 12½x17 3 75
D.X., 4 50
D.X.X., 6 50
NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—
I.C., usual sizes 3 60
I.C., special sizes, base 3 85
20x28 7 50
Charcoal Plates—Terne.
I.C., 20x28, 112 sheets 6 75
I.X., Terne Tin 8 25

Charcoal Tin Boiler Plates. Per lb.
Cookley Grade—
X X, 14x56, 50 sheet bxs } 0 06½ 0 07
" 14x60 " }
" 14x65, " }
Tinned Sheets.
72x30 up to 24 gauge 0 06 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07½ 0 07½

Iron and Steel.

Common Bar, per 100 lbs 1 90 1 95
Refrined " 2 20
Horse Shoe 1 85 1 90
Hoop steel, 1½ to 3 in. base, extras for smaller sizes 2 60
Swedish " 4 00 4 25
Sleigh Shoe Steel " base 2 60
Tire Steel 2 50
Machinery 0 10 0 14
Cast Steel, per lb 2 95
Toe Calk Steel 6 10
Toe Weight Steel 0 12 0 14
Thos. Firth & Sons' Cast Steel 0 10½ 0 11
Russian Sheet, per lb 2 00 2 25
Tank Plates, 1-5 and thicker 4 50 5 00
Boiler Rivets 0 11
1½-inch 0 12
2 " 0 14
2½ " 0 14

Boiler Tubes.

1½-inch 0 11
2 " 0 12
2½ " 0 14

Steel Boiler Plate.

¼ inch 3 25

3-16 inch 3 40
¾ inch and thicker 3 25

Black Sheets.

18 gauge 2 40
20 " 2 50
22 to 24 " 2 55
26 " 2 65
28 " 2 85

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¼ to ¾ inch, \$3 25; ¾ inch, \$3 80; 1 inch, \$5 25; 1½ inch, \$7 00; 2 inch, \$8 75; 2½ inch, \$12 00. 2½ to 6 inch, discount 60 p.c.
Galvanized, ¾ inch to 1½ inch, \$6 00; 2 inch, \$7 50; 2½ inch, \$10 50; 3 inch, \$14 75; 3½ inch, \$18 50; 4 inch, \$26 00.

Galvanized Iron.

G.C. Comet. Amer. Head. Queen's
16 gauge 3 85 4 00
18 to 24 gauge 4 25 4 00 4 25
26 " 4 50 4 25 4 50
28 " 4 75 4 60 4 75
Less than case lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs 6 90
" ¼ " " 4 40
" 5-16 " " 4 00
" ¾ " " 3 80
" 7-16 " " 2 75
" ½ " " 3 55
" ¾ " " 3 45
" 1 " " 5 90
Trace, per doz. pairs 3 60
Jack chain, iron, single, per doz. yards 0 13 0 50
Jack chain, double, per doz. yards 0 15
Jack chain, brass, single, per doz. yards 20 10

Copper.

Ingot.
English B. S., ton lots 0 19 0 19½
Lake Superior
Bolt or Bar.
Cut lengths, round, ½ to ¾ in. round and square 0 23½ 0 25
1 to 2 inches 0 23½ 0 25
Sheet.
Untinned, 14 oz., and light, 16 oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16 oz., irregular sizes 0 23 0 23½
NOTE.—Extra for tinning, 2 cents per pound, and tinning and half planishing 3

Tinned copper sheets 0 26
Planished 0 32
Braziers. (In sheets.)
4x6 ft. 25 to 30 lbs., ea., per lb. 0 25
" 35 to 45 " 0 24
" 50-lb. and above, " 0 23
Boiler and T. K. Pitts.
Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 5 per cent. Sheets, hard-rolled, 2x4 0 24 0 25
Tubing, base, per lb 0 24 0 25

Zinc Spelter

Foreign, per lb 0 07½ 0 07½
Domestic " 0 07½ 0 07½

Zinc Sheet.

1 cwt. casks 0 08½
Part casks 0 08½
Lead.
Imported Pig, per lb 0 04½ 0 04½
Domestic, per lb 0 05½
Bar, 1 lb. 0 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05½
Sheets, 3 to 6 lbs., per sq. ft., by roll. 0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra
Pipe, by the roll, usual weights per yard, lists at 7 cents per lb. and 17½ per cent. discount
NOTE.—Cut lengths, net price, waste pipe 8-ft. lengths, lists at 7½ cents.

Shot.

Net list; no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Per lb. Per lb.
Bar half-and-half 0 17 0 18½
Refined 0 16½ 0 17½
Wiping 0 16 0 17
NOTE.—Prices of this graded according to quantity. The prices of other qualities or solder in the market indicated by private brands vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½

White Lead.

Per cwt.
Pure, Assoc. guarantee, ground in oil, 25 lb. irons 6 1½
No. 1 do 5 74½
No. 2 do 5 37½
No. 3 do 5 00
No. 4 do 4 62½
Robertson's Chemically Pure 6 12½
Munro's Select Flake White 6 37½
Elephant and Decorators' Pure 6 12½
Brandram's B. B. Genuine 8 12½
No. 1 7 25
James' genuine 7 20
No. 1 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 05½
Pure, kegs 0 05½
No. 1, casks 0 04½
No. 1, kegs 0 05½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon 0 90
Barn (in bbls.) 0 70 0 90
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00 1 10
Robertson's Pure 1 00 1 10
Sanderson Peary's Pure 1 00 1 10

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 07
Chrome Yellow 0 11
Golden Ochre 0 06
French 0 05
Marine Black 0 09
Green 0 08
Chrome 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per cwt 1 35 1 40
Yellow Ochre (J. F. L. S.), bbls. per cwt 2 75
Yellow Ochre (Royal), per cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80 1 90
English Oxides, per cwt. 3 00 3 25

American Oxides, per cwt 1 75 1 80
Canadian Oxides, per cwt. 1 75 1 80
Burnt Sienna, pure, per lb. 0 10
" Umber, " 0 10
do " 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03½
Ultra marine Blue in 28-lb. boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb. 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb. 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb. 0 55

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1 lb. packages 0 15
½ lb. 0 16½
1-lb. tins 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 17
100-lb. lots, do. per lb. 0 08

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 85
Bulk in bbls., per 100 1 65
Bulk in less quantities 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs. extra Hamilton, London Guelph. For quantities less than 100-lbs., 2½c. per lb.

Varnishes.

(In 5-gal. lots.) Per gal.
Carriage, No. 1 1 30 1 40
Extra do. 1 50 1 60
Body Varnish 3 40 3 60
Furniture Varnish 0 50 0 60
Extra do. 1 10
Demar Varnish 1 10
Hard Oil Finish 1 30 1 35
Orange Shellac Varnish 2 00 2 10
White Shellac 2 20 2 25
Rubbing Varnish 2 00
Brown Japan 0 75
Elastic Oak 1 20 1 30

Linseed Oil.

Raw, per gal. net 0 53
Boiled, per gal. net 0 56
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 60
Outside points 1c. more

Castor Oil.

In cases, per lb 0 09
Small lots 0 10

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20
" Neatsfoot 90

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medal 0 12 0 12½
Cabinet, sheet 0 11 0 12
White, extra 0 16 0 18
Gelatine 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
B. B. Caps. Dom., 50 and 5 per cent.
Rim Fire Pistol, dia. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p. c. Amer.

SHAFTING HANGERS PULLEYS

We manufacture and carry in stock ready for prompt shipment, a full line of Shafting, Hangers and Pulleys

Especially suited for Creamery and Dairy Work.

Up-to-date goods. Correct prices.
Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office: 74 York St., TORONTO, ONT.

Central Fire Cartridges, pistol sizes, Dom. 3 per cent.
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.
Central Fire, Military and Sporting, Amer. net list. B.B. Caps. discount 45 per cent. Amer.
Loaded and empty Shells, "Trap" and "Domition" gr. des. 25 per cent. Rival and Nitro, 17 p.c.
Brass Shot Shells, 55 and 10 per cent. Primers, Dom., 80 per cent.

Best thick white felt wadding, in 3/4-lb bags. 1 00
Best thick brown or grey felt wads, in 1/2-lb bags. 0 70
Best thick white card wads, in boxes of 50 each, 12 and smaller gauges. 0 93
Best thick white card wads, in boxes of 50 each, 10 gauge. 0 35
Best thick white card wads, in boxes of 10 each, 8 gauge. 0 53
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges. 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge. 0 25
Thin card wads in boxes of 1,000 each, 8 gauge. 0 25
Chemical's prepared black edge grey cloth wads, in boxes of 250 each—
11 and 1 smaller gauge. 0 60
9 and 10 gauges. 0 70
7 and 8 gauges. 0 93
5 and 6 gauges. 1 10
Superior chemical's prepared pink edge, best white cloth wads, in boxes of 250 each—
11 and smaller gauge. 1 15
9 and 10 gauges. 1 40
7 and 8 gauges. 1 65
5 and 6 gauges. 1 90

Adzes.
Discount, 33 1/2 per cent.

Anvils.
Per lb. 0 10 0 12 1/2
Anvil and Vice combined each. 4 57
Wilkinson & Co.'s Anvils, lb. 0 09 0 09 1/2
Wilkinson & Co.'s Vices, lb. 0 09 1/2 0 10

Augers.
Gilmour's, discount 50 and 10 p.c. off revised list.
Hollow, Stearns', per dozen. 13 00 20 00
A J. table, Stearns', each. 4 50 6 50
Post-hole, Vaughans', each. 60 93

AXES.
Splitting Axes. 5 25 5 50
Chopping Axes—
Single List, per doz. 8 00 12 00
Double List, " 11 00 18 00
Rever Axes, 40 and 15 p.c.
Broad Axes, 3 1/2 per cent.

Bath Tubs.
Zinc. 3 90 4 00
Copper, discount 40 and 10 p.c. off revised list
Steel clad, 20 per cent. discount off revised list. Boxing extra.

Anti-Friction Metal.
"Tandem" A. per lb. 0 23
"B. " " 0 19
"C. " " 0 11 1/2
"Monarch" 1. " " 0 21
"2. " " 0 15
"3. " " 0 10
"Canadian" " " 0 08 1/2
Magnolia Anti-Friction Metal, per lb. 0 25
No Name Metal. " " 0 15
My-tic Metal. " " 0 10
F. O. B. New York or Chicago.

Bells.
Hand.
Brass, 60 per cent.
Nickel, 55 per cent.

Door.
Gongs, Sargent's. 5 50 8 00
"Petersboro", discount 50 per cent.
Cow.
American make, discount 60 per cent.
Canadian, discount 45 and 50 per cent.
Farm.
American each. 1 25 3 00

House.
American, per lb. 0 35 0 40
Bellows.
Hand, per doz. 3 35 4 75
Moulders', per doz. 7 50 10 00
Blacksmiths', discount 80 per cent.

Belting.
Extra, 50 per cent.
Standard, 50 and 10 to 50, 10 and 5 per cent.
Agricultural, 60 and 10 p.c.

Rits.
Auger.
Gilmour's, discount 50 and 10 per cent.
Rockford, Common, 70 to 70 and 10 per cent.
Perfection, 50 and 10 per cent.
Jennings' Gen., net list.
Car.
Gilmour's, 47 1/2 to 50 per cent.
Expansive.
Clark's, 40 per cent.
Gimlet.
Clark's, per doz. 0 65 0 90
Diamond, Shell, per doz. 1 00 1 50
Nail and Spike, per gross. 2 25 5 20

Blind Rollers.
Annex, per doz. 1 25 1 75
Mascott, " 1 35 1 85
Erminie, " 1 00 0 00

Blind and Bed Staples.
All sizes, per lb. 0 07 1/2 0 12

Bolts and Nuts.
Norway Bolts, full square. Per cent. 67 1/2
Common Carriage Bolts, 5-16 & under. 5 1/2
" " 3/4 and larger. 5 1/2
" " full square. 67 1/2
Machine Bolts, all sizes. 57 1/2
Coca h. Screws. 72 1/2
Sleigh shoe Bolts. 72 1/2
Blank Bolts. 57 1/2
Ro t. Ends. 62 1/2
Nuts, square. 40
Nuts, hexago. 40
Tapping Nuts. 1 1/2 c.
Tire Bolts. 65 and 10
Store Bol s. 65 and 10

Boot Calks.
Small and medium, per M. 4 50
Small heel, per M. 4 25

Rollers.
Light, dis. 65 to 67 1/2 per cent.
Reversible, dis. 65 to 67 1/2 per cent.
Vegetable, per doz. dis. 37 1/2 per cent.
Henis No. 8. 6 00
Henis, No. 9. 7 00
Queen City. 7 50 0 00

Butchers' Cleavers.
German, per doz. 6 10 11 00
American, per doz. 12 00 20 00

Building Paper, Etc.
Plain building, per roll. 0 28
Tarrad lining, per roll. 0 35
Tarrad roofing, per 100 lb. 1 46
Coal Tar, per barrel. 3 75
Pitch, per 100-lb. 0 60
Carpet felt, per 100 lb. 2 25

Bull Rings.
Copper, \$1.50 for 2 1/2 in. and \$2 for 2 in.
Butts.
Brass.
Wrought Brass, dis. 10 p.c. revised list.
Cast Iron.
Loose Pin, dis. 6 to 6 1/2 and 10 per cent.
Wrought Steel.
Fast Joint, dis. 70 and 10 per cent.
Loose Pin, dis. 7 1/2 and 10 per cent.
Berlin Bronze, dis. 7 1/2, 70 and 5 per cent.
Gee. Bronzed, per pair. 0 40 0 65

Cards.
Horse, per doz. 0 60 1 00

Carpet Sweepers.
B'sell, per doz. 22 50
World, " 21 75
Maisy, " 24 00
Star, " 28 00
Crown Jewel, per doz. 19 00
Grand Rapids, " 24 00 33 00

Carpet Stretchers.
American, per doz. 1 00 1 50
Bullard's, per doz. 6 50

Castors.
Bed, new list, dis. 55 to 57 1/2 per cent.
Plate, dis. 52 1/2 to 57 1/2 per cent.

Cattle Leaders.
Nos. 31 and 32, per gross. 8 50 9 50

Cement.
Canadian Portland. 2 65 2 90
English " 3 00
Belgian " 2 70
Canadian hydraulic. 1 00 1 10
Figures are for barrel lots.

Chalk.
Carpenters, Colored, per gross. 0 45 0 75
White lump, per cat. 0 60 0 65
Red. 0 05 0 06
Cr. yon, per gross. 0 14 0 18

Chisels.
Socket. Framing and Firmer.
Broad's, dis. 70 and 5 per cent.
Warnock's, dis. 40 and 10 per cent.

Churns.
Revolving Churns, metal frames—No. 0. \$3—
No. 1. \$3.2—No. 2. \$3.4—No. 3. \$3.75—
No. 4. \$4.50—No. 5. \$4.90 each. Ditto,
wood frames—15c. each less than above.
Terms 1 month or 3 p.c. off 30 days, f.o.b.

Clips.
Axle dis. 65 per cent.

Closets.
Washout, plain. 4 00
" embossed. 3 00
Connections. 1 10

Compasses, Dividers, Etc.
American, dis. 62 1/2 to 65 per cent.

Cradles, Grain.
Canadian, dis. 20 per cent. from factory.

Dies.
Hart Mfg. Co. (pipe dies), (Amer. list), dis. 40 per cent.
Hart Mfg. Co. (bolt dies), (Amer. list), dis. 10 per cent.

Door Springs.
Torrey's Rod, per doz. (15 p.c.) 2 00
Coil, per doz. 0 88 1 60
English, per doz. 2 00 4 10

Draw Knives.
Broad's dis. 75 per cent.
Warnock's, dis. 50 and 10 per cent.

Drills.
Hand and Breast.
Miller's Falls, per doz. net list.

DRILL BITS.
Morse, dis. 37 1/2 to 40 per cent.
Standard, dis. 50 and 5 to 55 per cent.

ELBOWS.
Stovepipe.
Per doz. 0 85 1 70

FILES.
Globe File Mfg. Co.'s dis., files, 60 and 10 to 70 per cent.
Pack Diamond, 50 and 10 to 60 per cent.
Kearney & Foute, 60 and 10 per cent. to 60, 10, 10.

Nicholson File Co., 50 and 10 to 60 per cent.
Jowett's, English list. 20 to 27 1/2 per cent.
Mechanics' Star & File Mfg. Co. Discount 60 and 10 to 70 per cent.

FORKS.
Hay, manure, etc., dis. 60 and 10 to 60 and 5 p.c. revised list.

FREEZERS.
Ice Cream.
White Mountain, 1 to 25 qt. 1 35 13 50
Arctic, dis. 50 p.c.

FRY PANS.
Acme, dis. 65 to 67 1/2 per cent.

FRUIT PRESSES.
Henis', per doz. 3 25 3 50
Shepard's Queen City, dis. 15 per cent.

GAUGES.
Marking, Mortise, Etc.
Stanley's, dis. 50 to 15 per cent.

Wire Gauges.
Winn's, Nos. 26 to 33, each. 1 65 2 40

GLASS.
Window.
Box Price.

Size United Inches.	Star 50 ft.	Per 100 ft.	Per 50 ft.	Double Diamond 100 ft.
Under 26.	2 00	3 75	3 20	6 00
26 to 40.	2 15	4 15	3 40	6 65
41 to 50.	4 50	....	....	7 00
51 to 60.	4 75	....	....	8 15
61 to 70.	5 10	....	....	9 00
71 to 80.	5 50	....	....	10 00
81 to 85.	6 10	....	....	11 50
86 to 90.	7 25	....	....	13 50
91 to 95. ....	....	....	....	15 00
96 to 100. ....	....	....	....	18 00
101 to 105. ....	....	....	....	20 50
106 to 110. ....	....	....	....	23 50

HALTERS.
Rope, 3/4 per gross. 8 25 8 55
" 1/2 " " 9 25 9 50
" 1/4 " " 11 00 11 25
Leather, 1 in., per doz. 3 75 4 00
" 1 1/4 in., " 5 15 5 20
Web, — per doz. 1 87 2 45

HAMMERS.
Nail
Maydole's, dis. 5 to 10 per cent. Can. dis. 25 to 27 1/2 per cent.

Tack.
Magnetic, per doz. 1 10 1 20

Sledge.
Canadian, per lb. 0 07 1/2 0 08 1/2

Ball Pean.
English and Can., per lb. 0 22 0 25

HANDLES.
Axe, per doz., net. 1 50 2 00
Store door, per doz. 1 00 1 50
Chest, per doz. pair. 0 40 2 50

Fork
C. & B., dis. 45 per cent. rev. list.

Hoe.
C. & B., dis. 45 per cent. rev. list.

Saw.
American, per doz. 1 00 1 25

Plane.
American, per gross. 3 15 3 75

Hammer and Hatchet.
Canadian, 45 per cent.

Cross-Cut Saws.
Canadian, per pair. 0 13 1/2 0 20

HANGERS.
Door, 4 and 5 inch, 1 per pair. 0 40 0 50
Lane's, 62 1/2 per cent.

HARVEST TOOLS.
Discount, 60, 10, and 5 per cent.

HATCHETS.
Canadian, dis. 40 to 42 1/2 per cent.

HINGES.
Blind, Parker's, dis. 60 and 10 to 65 per cent.
" Shepard's Noiseless, dis. 60 per cent.
" Buffalo, dis. 60 to 70 p.c.
Heavy T and strap, 4-in., per lb. 0 05
" 5-in., " 0 01 1/2
" 6-in., " 0 04 1/2
" 8-in., " 0 01 1/2
" 10-in., " 0 04
Screw hook and hinge—
5 to 12 in., 1 per 100 lbs. 3 75
14 in. up, per 100 lbs. 3 00
Per gro. pair 8 50

HOES.
Garden, Mortar, etc., dis. 60, 10 and 5 p.c.
Planter, per doz. 4 00 4 50

HOOKS.

Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.

Wrought Hooks and Staples, Can., dis.		
47½ per cent.		

Wire.

Hat and Coat, discount 60 per cent.		
Belt, per 1,000.	0 61	0 70
Screw, bright, dis. 65 and 10 per cent.		

HORSE NAILS.

"C" brand 50 p.c. dis.		
"M" brand 50 p.c.		

Oval head.

Acadian, 50 and 20 p.c., countersunk head.

HORSESHOES.

Iron Shoes.		
Light, medium, and heavy.	3 50	3 75
Snow shoes.	3 75	4 00
Steel Shoes.		
Light.	3 75	4 00
Featherweight (all sizes).	5 00	5 00

ICE PICKS.

Star, per doz.	3 01	3 25
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KETTLES.

Brass spun, 7½ p.c. dis. off new list.		
Copper, per lb.	0 30	0 35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.

Lock, Can., dis., 50 p.c.		
Cabinet, trunk, and padlock.		
A.m. per gross.		60

KNOBS.

Door, japanned and N.P., per doz.		0 90
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, per doz.	6 00	9 00
Shutter, porcelain, F. & L. screw, per gross.	1 30	4 00

KNIVES.

Clauss, bread, cake, and paring knives, \$7 00 doz. sets net. to 10 per cent.		
Christie, bread, cake and paring knives, \$7 00 doz. sets, with 10 p.c. off.		
Hay knives, spear point, L. or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Health's, \$7.75 net.		

LANTERNS.

Cold Blast, per doz.		7 00
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LEMON SQUEEZERS.

Porcelain lined, per doz.	2 21	5 60
Galvanized, per doz.	1 87	3 85
King, wood.	2 75	2 93
King, glass.	4 00	4 50
All glass.	1 21	1 30

LINES.

Fish, per gross.	1 65	2 50
Chalk.	1 90	7 40

LOCKS.

Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	2 00	2 20
Cabinet.		
Eagle, dis. 30 p.c.		

Padlock.

English and Am., per doz.	50	6 00
Scandinavian, " "	1 00	2 40
Eagle, dis. 15 to 17½ p.c.		

MACHINE SCREWS.

Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 20 p.c.		

MALLET.

Tinsmith's, per doz.	1 25	1 50
Carpenter's, hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each.	61	2 00

MATTOCKS.

Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off list.		

MEAT CUTTERS.

American, dis. 30 to 32½ p.c.		
German, 15 per cent.		

MICK CAN TRIMMINGS.

Discount, 25 and 10 per cent.		
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NAILS.

Quotations are:	Cut.	Wire.
24 and 3d.	\$2 15	\$3 65
31.	2 89	3 30
4 and 51.	2 75	3 05
6 and 7d.	2 55	2 95
8 and 9d.	2 30	2 81
10 and 12d.	2 25	2 75
16 and 20d.	2 20	2 70
30, 40, 50 and 60d. (base).	2 15	2 65
Steel Cut Nails 10c. extra.		

NAIL PULLERS.

German and American.	1 85	3 50
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NAIL SETS.

Square, round, and octagon, per gross.	3 38	4 00
Diamond.	12 00	15 00

NETTING.

Poultry, 50 and 5 per cent. for McMullen's.

OIL.

Canada refined (Toronto).	0 13½	
Sarnia Water White.	0 15	
"Prime Water.	0 14	
American w. w.	0 16½	
Pratt's Astral.	0 18	

OILERS.

McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	10 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Brass.	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.

Galvanized, straight pattern per doz.		
No. 12.	2 00	
Galvanized, straight pattern		
No. 14.	2 25	
Galvanized, straight pattern		
No. 16.	2 55	
Flaring pattern, No. 11.	2 25	
" " No. 12.	2 50	
" " No. 13.	2 85	
" " No. 14.	3 31	

PICKS.

Per doz.	6 00	9 00
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PICTURE NAILS.

Porcelain head, per gross.	1 40	3 00
Brass head.	0 40	1 00

PLANES.

Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37½ to 40 per cent.		
Bailey's (Stan. E. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27½ per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.

English, per doz.	2 00	5 00
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PLIERS AND NIPPERS.

Button's Genuine, per doz pairs, dis. 37½ 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 63	2 60

PULLEYS.

Hothouse, per doz.	0 55	1 00
Axle.	0 22	0 33
Screw.	0 27	1 00
Awning.	0 35	2 50

PUMPS.

Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.

Saddlers, per doz.	1 00	1 85
Conductors, " "	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 60

RAKES.

Cast steel and malleable Canadian, list dis. 61, 10 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.

New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.

Geo. Butler & Co.'s.	8 00	18 00
Boker's.	7 50	11 00
Wade & Butcher's.	3 60	10 00
Theile & Quack's.	7 00	12 00

RIVETS AND BURRS.

Carriage, Section, Wagon Box Rivets, etc. (Steel), 60 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 55 p.c.		
Black M Rivets (Steel), 50 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb. cartons, ½ c. per lb.		
Extras on Iron Rivets in ½-lb. cartons, 1 c. per lb.		
Copper Rivets & Burrs, 35 p.c. dis., and cartons, 1 c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in ½-lb. cartons, 1 c. per lb.		
Burrs, iron or steel, 45 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.

Canadian, dis. 35 to 37½ per cent.		
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ROPE, ETC.

7-16 in. and larger, per lb.	Sisal.	Manila.
10½	11	11
11	11½	11½
1½ and 5-16 in.	11½	12
Cotton.	13	13
Russia Deep Sea.	14½	14½
Jute.	6½	7½
Lat Yarn.	8½	8½
New Zealand Rope.	9½	9½

RULES.

Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37½ to 40 p.c.		

SAD IRONS.

Mrs. Potts, per set.	0 67½	
N. P., per set.	0 80	

SAND AND EMERY PAPER.

Dominion Flint Paper, 47½ per cent.		
B. & A. sand, 40 and 2½ per cent.		
Emery, 40 per cent.		

SASH CORD.

Per lb.	0 20	0 50
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SASH WEIGHTS.

Sectional, per 100 lbs.	1 40	1 75
Solid.		1 25

SAWS.

Hand, Disston's, dis. 12½ to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Disston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.		0 75

SAW SETS.

"Lincoln," per doz.	5 50	6 00
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SCALES.

Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion 61 per cent.		
Fairbanks Standard, 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENSES.

Door patent per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS.

Sargent's, per doz.	0 65	1 00
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SCREWS.

Wood, F. H., iron, and steel, 82½ and 5 p.c.		
Wood R. H., " dis. 75 and 5 p.c.		
" F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., " dis. 67½ and 5 p.c.		
" F. H., bronze, dis. 67½ and 5 p.c.		
" R. H., " ½ and 5 p.c.		
Drive Screws, 82½ and 5 per cent.		
Bench, wood, per doz.	3 25	4 00
" iron.	4 25	5 75

SCYTHES.

Discount, per doz. net.	4 50	6 00
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SCYTHE SNATHS.

Canadian, dis. 50 p.c.		
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SHEARS.

Seymour's, dis. 50 and 10 p.c.		
Heinisch, dis. 50 and 10 p.c.		
Claus's, full nickel, 50 and 10 p.c.		
" japanned handles, 67½ p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.

Canadian, dis. 40 and 5 per cent.		
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SNAPS.

Harness, German, dis. 35 to 37½ p.c.		
Acme.	3 00	5 00
Lock, Andrews.	4 50	11 50

SOLDERING IRONS.

2 lb., per lb.	0 30	
3 lb.,		3 00

WROUGHT SPIKES.

Discount, 35 to 40 per cent.		
------------------------------	--	--

SQUARES.

Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 50 to 52½ p.c.		

STAPLES.

Galvanized.	3 25	
Bright.		3 00

STOCKS AND DIES.

American dis. 25 p.c.		
-----------------------	--	--

STONE.

Per lb.		
Washita.	0 28	0 60
Hindustan.	0 06	0 17
" slip.	0 09	0 09
Labrador.		0 13
" Axe.		0 15
Turkey.		0 51
Arkansas.	0 00	1 50
Water-of-Ayr.	0 00	0 10
Scythe, per gross.	5 50	5 00
Grind, per ton.	15 00	18 00

Stove Polish.



No. 4-3 dozen in case, net cash	\$4 50	
No. 6-3 dozen in case,		7 50

STEP LADDERS.

Best grade, from 3 to 10-ft. long, per foot, 16c.		
2nd grade, 3 to 10-ft., per foot, 10c.		

TACKS BRADS, ETC.

Strawberry box tacks, bulk	75 and 10	Per cent
Cheese-box tacks, bulk	85 and 10	
Trunk tacks, black and tinned	85 and 10	
Carpet tacks, blue and tinned	80 and 10	
" (in kegs)	45	
Cut tacks, blue, in dozens only	75 and 12½	
" ¼ weights	60	
Swedes, cut tacks, blue and tinned—		
In bulk	80 and 28	
In dozens	75 and 7	
Swedes, upholstery's, bu k	85 and 10	
" " bulk	75 and 10	
" " gimps, blue tinned & japanned	75 and 30	
Zinc tacks	80 and 30	
Leather carpet tacks	30	



"BUILD TO-DAY THEN,
STRONG AND SURE.
WITH A FIRM AND
AMPLE BASE."
—Longfellow.

DO YOU?
WISH TO BUILD
an
advertisement
in the
CONTRACT-
RECORD,
TORONTO
will bring you
tenders from the
best contractors.

A Well-Known Article

Price Low.



Quality High.

WRITE DIRECT TO

Anti-Friction Alloys, Limited

52 Queen Victoria St., LONDON, ENG.
(26)

"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting

—and—

Fencing.

Made by

The Ontario Wire Fencing Co.

PICTON, ONT. Limited

For sale by The Canadian Hardware Jobbers;
The B. Greening Wire Co., Hamilton and Mont-
real, General Agents, and James Cooper, Montreal,
Agent for Railway Fencing. (20)

CHAS. F. CLARK, JARED CHITTENDEN,
President. Established 1849. Treasurer.

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the civilized world. Executive Offices: Nos. 346
and 348 Broadway, New York City, U.S.A.

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reflects the financial condition and the controlling cir-
cumstances of every seeker of mercantile credit. Its busi-
ness may be defined as of the merchants, by the merchants,
for the merchants. In procuring, verifying, and promulgat-
ing information, no effort is spared, and no reasonable ex-
pense considered too great, that the results may justify its
claim as an authority on all matters affecting commercial
affairs and mercantile credit. Its offices and connections
have been steadily extended, and it furnishes information
concerning mercantile persons throughout the civilized
world. Subscriptions are based on the service furnished
and are available only by reputable wholesale, jobbing and
manufacturing concerns, and by respectable and worthy
financial, fiduciary and business corporations. Specific
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Toronto Office: Cor. Jordan and Melinda Sts.
THOS. C. IRVING, Superintendent.

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As long as there are failures, subjects that furnish
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Made with shorter barrel for bicycle
use.

The most perfect small pistol made.

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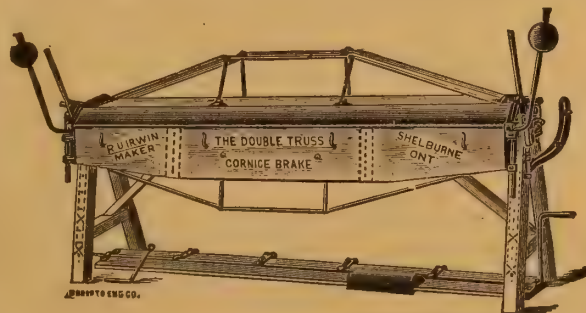


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Manufacturers of
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Forehand Guns

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This eight-foot Brake bends 22-gauge iron
and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$10 extra,
if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. **SHELBURNE, ONT.**

The

CARPENTER GRASS HOOK.

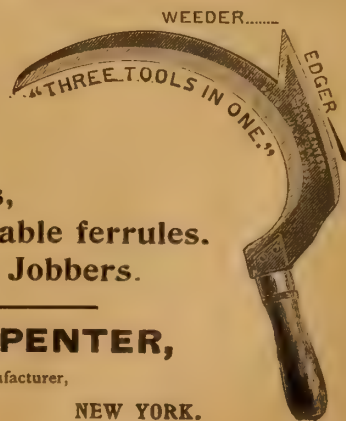
Oil-tempered blades,
Hard wood handles,
Strong malleable ferrules.
For sale by Hardware Jobbers.

F. E. CARPENTER,

Sole manufacturer,

105 Park Place,

NEW YORK.



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Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve

Medals

TRADE MARK.



Awarded

By **JURORS** at

**International Expositions
Special Prize**

Gold Medal at Atlanta, 1895

TRADE MARK.



TO INSURE COMFORT AND SAFETY

...USE...

"Maltese Cross" Inner Tubes

AND



The Toronto Rubber Co.

Limited

185 Yonge Street - TORONTO, CANADA

**Put Luxfer Prisms in thy
Windows.**

Put Money in thy Purse.

"They echo the outside brightness
to the very rear of your warehouse
or basement."



EATON'S—WITH LUXFER PRISMS.



EATON'S—WITH PLATE GLASS.

CONVINCING.

Get estimates on the cost of the improvement.
Then compare your light bills.

Luxfer Prism Co., Limited.

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Best formula and value made.
Langwell's Babbitt
--Montreal.

CANADIAN

HARDWARE

AND METAL
MERCHANT

The Weekly Organ of the Hardware, Metal, Heating, Plumbing and Contracting Trades in Canada.

VOL. XI.

MONTREAL AND TORONTO, JUNE 24, 1899.

NO. 25



Magnolia Metal

Best Anti-Friction Metal for
all Machinery Bearings.

GENUINE MAGNOLIA METAL is made up
in bars, of which this is a

FAC-SIMILE.

The name and trade
mark appear on each box
and bar, and besides this,
the words "Manufactured
in United States" and
"Patented June 3, 1890"
are stamped on the under
side of each bar.



MAGNOLIA METAL COMPANY

LONDON OFFICE—49 Queen Victoria St.
CHICAGO OFFICE—Fisher Building, 281
Dearborn Street.
CANADIAN OFFICE—524 Board of Trade
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Owners and Sole Manufacturers,

266 and 267
West St., New York

ALWAYS IN THE MARKET.



CANADA

No trouble about getting delivery of "QUEEN'S
HEAD." At every wholesale centre in Canada
there is a full stock carried, and if your jobber
does not keep it he can easily get it. Insist on
his doing so.

JOHN LYSAGHT, Limited

BRISTOL, ENG. MONTREAL.

Figuring Close?

It pays to figure *close*
for your customer, provided it is the Safford Patent Radiator that you are going
to install for him. Figure close—don't be afraid of the profits. The Safford pays
a good profit, and, better yet, *it absolutely cannot leak*. No bolts, no packing,
screw threaded nipple connections at every point.

The Safford stands a pressure of 140 pounds to the square inch, yet it is
light, durable, handsome, and fits curves, circles, angles. You can "figure close"
on the Safford because you can be absolutely sure that it will give *perfect satis-
faction*. It will advertise your business and your reputation too.

The Safford Radiators

AGENCIES AT

Montreal, Quebec, Winnipeg,
Vancouver, London, Glasgow,
Edinburgh, Belfast, Antwerp,
Berlin, Christiana, Auckland,
N. Z.

THE DOMINION RADIATOR COMPANY LIMITED

Toronto, Ont.

RICE LEWIS & SON

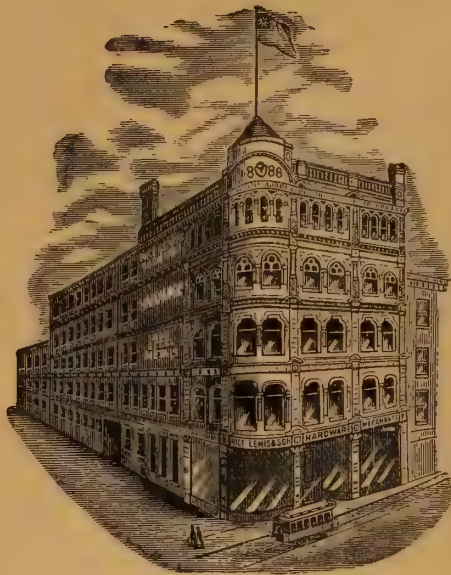
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MANTELS
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FINE BUILDERS' HARDWARE.

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Hammerless
Smokeless
Six-Shooter

New 1899 Model

AGENTS:

Winnipeg, J. H. ASHDOWN

Toronto, RICE LEWIS & SON

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LATEST and FINEST Rifle
manufactured.

Write for complete
Catalogue W.

SAVAGE ARMS CO., Utica, N.Y., U.S.A.

Established 1825

Important Decision relating to the

Established 1825

HEINISCH



TRADE-NAME ON SHEARS, TRIMMERS, Etc.

The U.S. Circuit Court, Southern District of New York, Judge Townsend, has rendered a decision in the suit of "R. Heinisch's Sons Co. vs. Hermann Boker & Co."

"The Complainant is entitled to an accounting, and to an injunction restraining them from using the names 'Heinisch' or 'H. O. Heinisch' on its Shears, Labels, etc., and otherwise, in any way which will interfere with Complainant's enjoyment of the benefits of its Trade-name."

Referring to the above decision, we would respectfully state our determination to protect our rights in the premises and warn all persons against any imitation of our Trade-name.

R. HEINISCH'S SONS CO.,

N.Y. OFFICE, 90 Chambers St.

NEWARK, N.J., U.S.A.

Not connected with any Shear Combination.

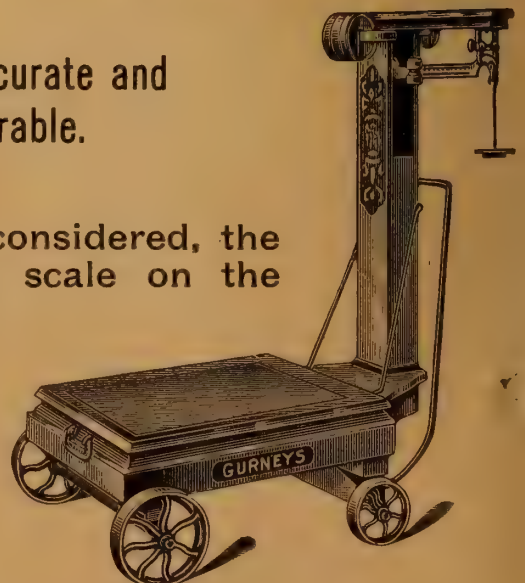
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GURNEY

Accurate and
Durable.

Quality considered, the
cheapest scale on the
market.



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We make a specialty of _____

Pure Vermilion, Chrome Yellow,
Chrome Green and Tinted Paints

for your special use.

Write for Prices.

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ALL OUR

Garden Hose

IS MADE WITH OUR

Patent Seamless Tube.

New Seamless Tube.

Old Lapped Tube.



The seamless rubber tube being equally strong throughout its length and circumference, does not leave any weak point for the water to work through.

OUR BRANDS

STAR
WIRE WOUND
MAROON

WESTERN

TRADE
COTTON RUBBER LINED
WHITE

THE CANADIAN RUBBER CO. of MONTREAL

Capital, \$1,500,000.00.

Head Office and Factories, Montreal.

Ontario Branch, - Toronto.

Western Branch, - Winnipeg.

"YANKEE" TOOLS

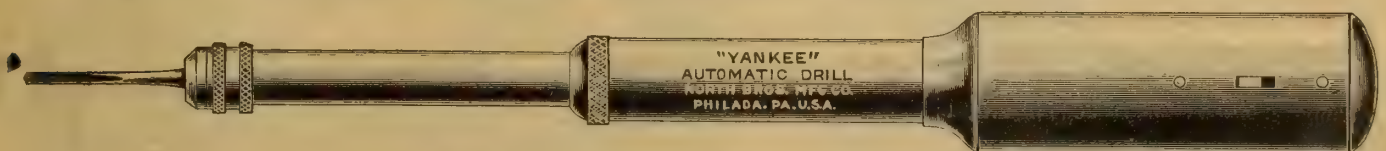
are sold by Leading Jobbers
throughout the Dominion.



No. 10 RATCHET SCREW DRIVER, 2, 3, 4, 5, 6, 8, 10, 12 inch.



No. 30 SPIRAL-RATCHET SCREW DRIVER.



No. 40 AUTOMATIC DRILL.

FREE A handsome lithographed and embossed Sign in colors, on tin, to dealers handling these tools. Separate sign for each tool. Write at once which sign is wanted and it will be mailed post paid.

SEND FOR "YANKEE" TOOL BOOK.

North Bros. Mfg. Co.

Philadelphia, Pa., U.S.A.

KNOX HENRY.

Heavy Hardware and Metal Broker
Room 220 1/2 Board of Trade, MONTREAL.

SPECIALTIES—C Brand Horse Nails—Canada Horse Nail Co.

BOLTS—Tire and Stove Rivets of all kinds—Chalcraft Screw Co.

BRASS GOODS—Gunn Castor Co., Limited, Birmingham, Eng.

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

Charcoal Pig Iron

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"AMERICAN" HALTERS

are fitted with

ONEIDA LOCK RINGS

(Pat. U.S., Oct. 11, 1898; Canada, Jan. 14, 1899.)

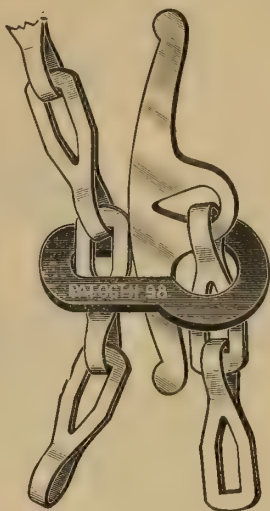
which combine the advantages of the ordinary STATIONARY and SLIP rings while avoiding the disadvantages of both.

Ring easily ADJUSTED until
Toggle is in place, then abso-
lutely STATIONARY.

For sale by all Jobbers; manufactured only by

Oneida Community Limited

NIAGARA FALLS, ONT.

**DAVID MAXWELL & SONS**

ST. MARYS, ONT., CANADA

"MAXWELL FAVORITE CHURN"

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive.

LAWN MOWERS.

High and Low Wheels, from 12-in to 20-in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

WHEELBARROWS.

In Four different sizes.

If your Wholesale House does not offer you these articles

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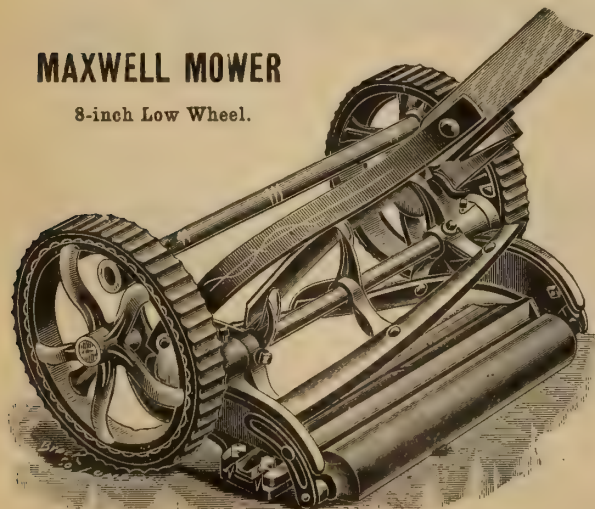
Steel Frame.



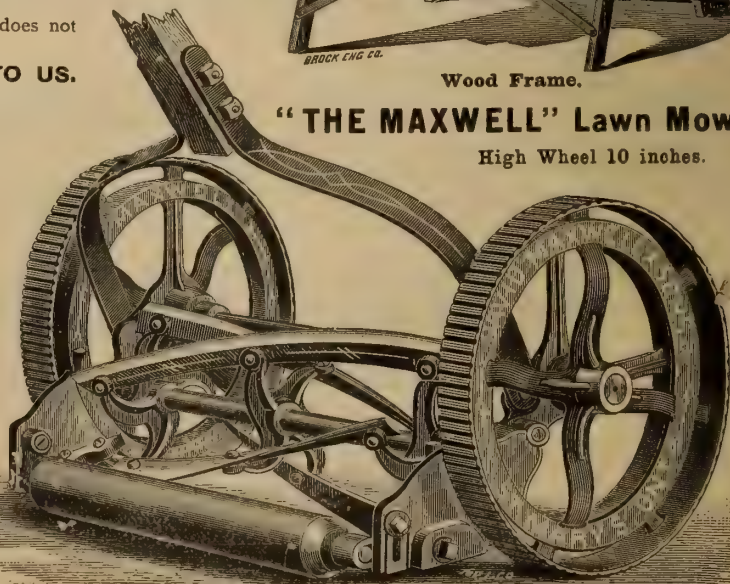
Wood Frame.

MAXWELL MOWER

8-inch Low Wheel.

**"THE MAXWELL" Lawn Mower**

High Wheel 10 inches.





IRON AND
BRASS

Pumps

Force, Lift and Cistern
Hand and Power.

For all duties. We can supply your wants with—quality the best and prices right. Catalogues and full information for a request.

THE R. McDOUGALL CO., Limited
Manufacturers, Galt, Canada.

Wheelbarrows

—ALL KINDS.

Navy, Garden,
Stone, Stable,
Steel Tray, Tubular.

Best and cheapest on the market.
Write for prices.

Eastern Agent—

ALEXANDER GIBB

22 St. John Street, - - MONTREAL.

Meaford Wheelbarrow Works
CLELAND BROS. & CO.
Meaford, Ont

The Leader Churn

(TWO STYLES.)

1898 Stand, with lever attachment.

1899 Stand, with Anti-Friction Steel Ball Bearings.

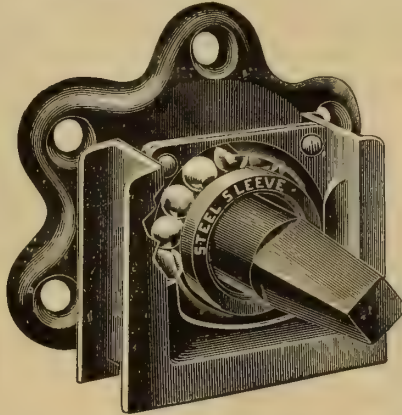
INTERNAL BREAKERS

Increase Yield—Reduce Time.

Your customers require the best churn.

Make no mistake—order Leaders.

SEND FOR PRICES.



This cut illustrates our Bicycle Ball Bearings as supplied with new pattern stands. Easiest running and most durable bearing made.



This is our Latest Stand, with Ball Bearings.

Made exclusively by

THE DOWSWELL MANUFACTURING CO., Limited

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EDDY'S WRAPPING PAPERS

possess a peculiar toughness
adapting them for the HARD-
WARE TRADE.

The long fibre we make
them of is responsible for this.

SEND FOR A SAMPLE ORDER

PRINTED or UNPRINTED.

The E. B. EDDY CO., Limited

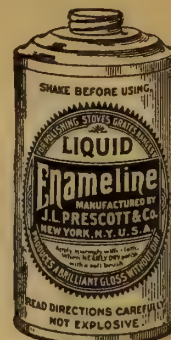
Hull, Montreal, Toronto, Quebec, Hamilton, Kingston, St. John,
Halifax, Winnipeg, Victoria, Vancouver, St. John's, Nfld.

Enameline

The Modern **STOVE POLISH**



PASTE.



LIQUID.

We present herewith cuts showing the three different forms of package in which Enameline is put on the market. The enormous amount of advertising being done to familiarize house-keepers with the name enables merchants to make quick sales. Don't load up with unknown brands—that's dead stock.

J. L. PRESCOTT & CO., New York.



EMERY

Cloth and Paper.
Glass and Flint Paper.

"Atlas" Brand

"FLORA" Knife Polish, in 3d., 6d. and 1/ tins

Ground, Washed and Flour.

WHEELS of highest quality for general and special purposes.

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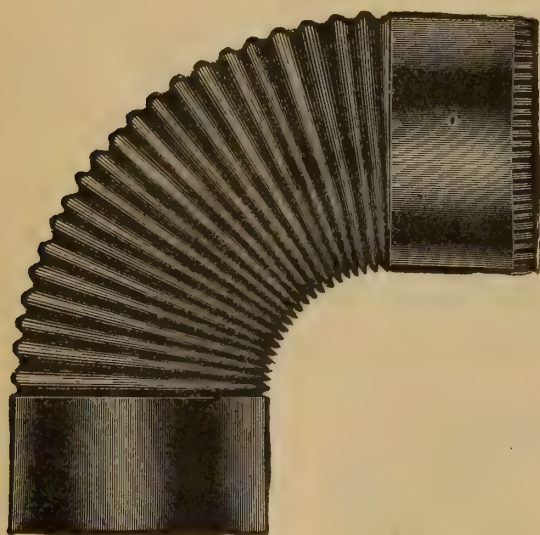
10-12 Vine Street
Clerkenwell,

LONDON, E.C.



Write for Latest Catalogues and Samples to
THE LONDON EMERY WORKS CO.,

Agent in Canada—MR. T. L. PATON, 30 St. Francois Xavier Street, Montreal, P. O. Box 903.



KEMP'S STANDARD

One-Piece Elbows.

Made of Extra Heavy Smooth Steel ; in Two Qualities.

THIS ELBOW IS POPULAR, BECAUSE

It is the Strongest Elbow Made.
It is attractive in Appearance.
It will not get damaged in Shipping,
It has a Coating which prevents Rust.
It is riveted ready for use.
It is as Cheap as the Ordinary Pieced Elbow,

The improved process of manufacture produces a short turn, therefore, less material is used, and consequently less weight per dozen, which results in a great reduction in freight, and a reduced cost to the buyer.

MADE IN STEEL, IN 5, 6, 7 AND 8-INCH.
MADE IN GALVANIZED IRON, IN 7 AND 8-INCH.
MADE IN TIN, IN 7 AND 8-INCH.

Kemp Manufacturing Co., ...**TORONTO,**
CANADA.



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JOHN BAYNE MacLEAN, HUGH C. MacLEAN
Montreal. Toronto.

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Limited.

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Subscription Canada, \$2.00 Great Britain, \$3.00
Published every Saturday.

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**WHEN WRITING ADVERTISERS
PLEASE MENTION THAT YOU SAW
THEIR ADVERTISEMENT IN THIS PAPER**

CONFLICTING PRICES ON PIPE.

THE situation in regard to iron pipe in Montreal is in striking contrast to the position of the same material at other centres.

For several weeks back Montreal prices have been away below those quoted at other centres, in fact, entirely out of proportion.

This week, some of the Montreal jobbers put their prices up 5 per cent., but others are still accepting prices at the old figures, and as they are among the largest handlers of pipe in Canada the situation is rather mixed.

The explanation given by the latter is that, owing to the competition between the two pipe mills at Montreal, they have no difficulty in obtaining pipe at a cost which

allows of a profit at the lower figures. This, the mills deny stoutly, asserting that for all new contracts they ask a cost that is on an equivalent with American prices.

The actual truth of the matter seems to be that some firms who were wise enough to foresee the remarkable advance before others still have contracts unfilled with makers that permit them to undersell all competitors by a considerable margin.

The new scale asked by some of the firms calls for about 5 per cent. advance on black pipe on the prices quoted last week, and a glance at it and the old scale shows how much below other centres Montreal is on black pipe:

Black Pipe.	New List.	Old List.
½ and ¾ inch.....	\$3 12	\$2 98
¾ " " " " " " " "	3 09	2 95
1 " " " " " " " "	3 72	3 55
1 ¼ " " " " " " " "	5 14	4 90
1 ½ " " " " " " " "	6 82	6 50
2 " " " " " " " "	8 66	8 25
2 ½ " " " " " " " "	11 02	10 50

It is necessary to be up-to-date in order to be successful, and in order to be up-to-date it is necessary to watch the markets closely and to be a student of trade literature and trade methods.

COIL CHAIN HIGHER IN MONTREAL.

The jobbing price of coil chain was advanced all round by Montreal jobbers this week. The new and old scales are as follows:

	New List.	Old List.	Advance.
No. 6.....	10 ¾ c.	10 ½ c.	¼ c.
No. 5.....	9 ¾ c.	9 c.	¾ c.
No. 4.....	8 ¾ c.	8 c.	¾ c.
No. 3.....	7 ¾ c.	7 c.	¾ c.
¼ inch exact....	\$6 00	\$5 75	25c.
5-16 " " " " " " " "	4 75	4 50	25c.
¾ " " " " " " " "	4 25	4 00	25c.
7-16 " " " " " " " "	4 10	3 85	25c.
½ " " " " " " " "	4 00	3 75	25c.
9-16 " " " " " " " "	3 95	3 70	25c.
¾ " " " " " " " "	3 85	3 60	25c.
¾ " " " " " " " "	3 65	3 40	25c.
¾ and 1 in. exact	3 55	3 30	25c.

THE WAY TO SUCCEED.

While there are doubtless too many people in business, the greatest evils arise from the fact that there are not enough in business who are first-class merchants.

A first-class merchant is one who knows his business from A to Z, and rightfully employs his knowledge.

The less a merchant is master of his business the more difficulty does he experience in competing with those who are rich in that which he is poor.

It is when a merchant discovers this that, like a boy who finds himself losing a race, he begins to elbow his competitor, by cutting prices, publishing false advertisements, and employing other vicious and dishonest methods.

The better a man knows his business, the more likely is he to succeed. Everyone knows it, but it is not everyone who acts as if he knew it. If he did, he would employ his time, particularly when a young clerk, in mastering the details of his business: Learn about the character of the goods in stock, how they are made, where they are made, and what are their constituent elements. A knowledge of bookkeeping should also be acquired, if it has not yet been acquired, while spare time judiciously spent with good books is to be recommended to all.

BLACK SHEETS QUOTED HIGHER.

Jobbers in Toronto have advanced the price of black sheets 15 to 20c., and quotations are now as follows: 18 to 20 gauge, \$2.60; 22 to 24 gauge, \$2.70; 26 gauge, \$2.80; 28 gauge, \$3.

Prices have been advancing sharply in the United States, and the appreciation here is the natural consequence.

CANADA AND THE U. S. TREATY WITH BARBADOES.

PRESS despatches from Washington announce that a treaty has been signed by Great Britain and the United States, whereby reciprocity between the latter country and Barbadoes is secured.

Geographically, Barbadoes is one of the Windward group, but politically it is part of the West India Islands. Its area is 166 square miles, and its population nearly 190,000. Bridgetown is its capital. The imports of the island are about \$5,200,000 annually, and the exports about \$3,750,000. Sugar and its products are its chief exports.

Upon its sugar industry Barbadoes is largely dependent, and the Royal Commission, which was appointed in 1897 to investigate and report upon the West India sugar conditions, named Barbadoes as one of the West India Islands on which no industry could be found as a substitute for the sugar industry. The commission, therefore, urged the Imperial Government to grant the sum of £120,000 for the establishment of central sugar factories there. This recommendation has since been acted upon by the Colonial Department.

Barbadoes is one of the British colonies named in the Canadian Tariff Act for preferential treatment. But whatever influence the preferential tariff may have is discounted by the fact that the countervailing duties imposed by the United States against European bounty-fed sugars actually give sugar, the product of Barbadoes, and, in fact, all other West India sugars, a greater preference than the Canadian tariff.

But it is worthy of note that the export of sugar from Barbadoes has so far this, as compared with last year, declined on both United States and Canadian account.

With Hawaii Islands, the Philippine Islands and Porto Rico possessions of the United States, and Cuba practically a possession, the prospect for the sugar industry is even more gloomy still. And the movement for reciprocity with the United States has been stimulated by the knowledge of this fact, not only in Barbadoes, but in Jamaica, Guiana and Bermuda as well.

Canada cannot stand uninterested while reciprocity is being consummated in one

instance and being negotiated in other instances.

It is, perhaps, not so much the trade we have with those parts of the British Empire which have secured reciprocal arrangements with the United States, or are trying to secure them, as the trade we hope to do through the individual enterprise of our business men, to say nothing of the hope we have of ourselves some day securing reciprocal arrangements with identically the same parts of the British Empire.

With Barbadoes itself the official returns do not reveal what trade Canada does. The trade with the West Indies is all grouped under one heading. The imports from the West Indies last year were \$670,622 and the exports thereto \$1,511,134. To British Guiana we sent \$273,937 worth of goods, and from there we imported \$53,648 worth.

The export and import trade for 1897 of Barbadoes, and the principal countries with which it was done, was, according to the official returns of the island itself, as follows:

	Exports.	Imports.
Great Britain.. ..	\$ 165,330	\$2,309,826
British Guiana.....	111,855	105,266
“ India.....	.....	55,553
“ North America....	419,307	529,663
“ West Indies.....	597,120	177,915
Dutch Guiana.....	50,175	7,358
Foreign West Indies...	86,874	57,937
Peru.....	.....	35,049
United States.....	2,090,364	1,566,618
Other Countries.....	61,634	63,836
	\$3,582,659	\$4,909,001

It is evident from the above table that the United States is the chief purchaser of the products of Barbadoes, the exports to that country being valued at \$2,090,364, against \$1,293,612 to the five different portions of the British Empire enumerated in the tabulated statement.

Taking, however, the aggregate trade—imports and exports—Barbadoes' greatest trade is with the British Empire, the total being \$4,471,835, against \$3,656,982 for the United States. It will thus be seen that about 50 per cent. of the island's aggregate foreign trade is with the British Empire.

ADVANCE IN FURNACES AND REGISTERS.

The manufacturers have adopted uniform prices on furnaces and have advanced the selling figures about 10 per cent. The

agreement is the result of a meeting held a few days ago.

A similar advance has been made in the price of registers.

The high cost of raw material was the cause of the increase in the price of both furnaces and registers.

Stoves, it will be remembered, were advanced several months ago, but this is the first change that has been made in furnaces, notwithstanding the increased cost of raw material.

As far as can be gathered, dealers, generally, throughout the country had placed quite a few orders before the change was decided upon.

IMPORT GLASS ORDERS.

Belgian manufacturers can give little satisfaction to numerous inquiries as to the likelihood of getting orders shipped in June, or even in July, the strikes having demoralized things completely.

A recent cablegram gives but little encouragement in the situation; they state that they are doing their best under existing circumstances.

It is predicted that there will not be much glass distributed before August or September, two or three months later than usual.

A trust is an organization which manufacturers form because they cannot trust each other.

BROOM HANDLES WANTED.

The E. B. Eddy Co., Limited, Hull, Que., have received a letter from W. R. Crow & Son, 36 Gracechurch street, London, E.C., England, asking for the most likely source of supply for broom handles, 51 inches long by 1 1/4 inches in diameter, turned round, with a rounded top at one end, from good clean spruce, or any other wood without knots. Broom handles not being among The E. B. Eddy Co., Limited's line of manufacture, HARDWARE AND METAL has been asked to make inquiries through its columns.

If any of our readers can supply the desired information we would feel greatly obliged.

Kind words may never die, but unkind words will kill trade.

ENTERPRISE, NOT PAP, NEEDED.

THE Montreal Board of Trade, at a special meeting held this week, gave another utterance to the time-worn wail with which it has treated the public for over a year back, namely, that the Government should build elevators in Montreal.

"God help those who cannot help themselves," is a saying that could be very aptly applied to those who are making this appeal. They want to be spoonfed by the Government into a position where they should depend upon their own enterprise to place themselves.

The Government has no business in the grain elevating trade, which is a fit field for private enterprise, and the men who are now asking for Government elevators at Montreal, even if they had them, would cry for more pap, when they found that grain was still being diverted from the St. Lawrence route.

If the grain traders of Montreal were independent and progressive, they would take steps to induce trade to come their way, and not sit down and cry because it does not.

That the grain trade is important to the St. Lawrence route, none will deny, and it is growing, as the shipment last year of over 29,000,000 bushels contrasted with previous years shows. But that is no argument why there should be Government elevators.

The legitimate duty of the Government ends when it has completed a system of deep waterways to the sea adequate to the requirements of modern commerce. If the Government once started in the elevator business, on the lines asked for, there would be no knowing where it would stop.

If the Government is to save the shippers of grain from private elevators, it is but just that it should save the farmers and growers. Now, it needs no solon to see what this would mean, for there are elevators to gather grain in the interior—many of them—as well as these ones at the seaboard for export purposes.

That any thriving trade can be built up in this way is disproved by the experience of the Government in other lines of commercial effort. It has an annual deficit on the Intercolonial, where it is doing a carry-

ing trade, and all precedent goes to show that the outcome would be an annual loss.

The history of private ownership of elevators at Buffalo and all other American centres shows that there is no ground for the fears entertained by the men who want Government elevators at Montreal.

When the enlarged canals and the deep channel are completed, let private enterprise build elevators, and, in their own defense, their owners, by the competition of other routes, will be compelled to scale their rates at a reasonable level if they want to do business. The moment they try extortion, trade will seek other channels, as it invariably does under such circumstances, and matters will soon be remedied.

ADVANCE IN AMERICAN LOCKS.

Manufacturers in the United States have advanced the price of all kinds of padlocks. The advance is from 10 to 20 per cent., according to the class of material used in the manufacturing process.

The advance is not without interest to hardware dealers in Canada, seeing that the largest part of the locks they import are from the United States.

The total importation of locks into Canada last year was \$97,168, and of this, \$88,223, or over 90 per cent. was from the United States. The other countries from which locks were imported were Great Britain, \$8,376; Germany, \$478; France, \$88, while \$3 worth came from China.

Women get most things they desire, but they have not yet got enfranchisement.

LINSEED OIL ADVANCES.

The price of linseed oil advanced 2c. this week, making a total gain of 4c. in ten days. The cause of the advance is the stiffening of values in the English market, where prices have been rising for the past month. The rise in England is attributed to scarcity of the seed from which the oil is derived.

The present price, 60c. for boiled and 57c. for raw at Toronto and Montreal, is 8c. above the prices ruling at this time last year, when there was a good business doing at 52c. for boiled and 49c. for raw. The demand for the past month has been excellent, as the prices are expected to be well maintained.

GERMAN HARDWARE DEARER.

Jobbers in Canada have this week been advised of an advance in the price of both hardware and cutlery of German manufacture. The advance in the former ranges from 10 to 25 per cent., and in the latter it is about 5 per cent.

Canada's imports of hardware from Germany are not large. Under the classification which includes builders', cabinetmakers', upholsterers', harnessmakers', saddlers' and carriage hardware, Canada last year imported but \$1,502 worth from Germany. From the United States the imports were \$383,044; from Great Britain, \$37,236, and from France, \$1,482.

Taking pocket, table and other cutlery, Canada last year imported \$103,387 worth from Germany. From Great Britain it was \$198,515, and from the United States, \$46,224.

GREEN WIRE CLOTH 25C. DEARER.

Still another advance is to be noted in the price of green wire cloth, making the third within the last six or seven weeks.

The figure to-day is \$1.75 per 100 square feet, a rise of 25c. during the week.

The price of green wire cloth is now from 55 to 60c. per 100 square feet above the figures ruling at the opening of the season. In other words the price to the jobber is now about 45.85 per cent. above the opening quotations.

The demand for green wire cloth this season has been unusually brisk, and it has been impossible to get prompt shipment from the manufacturers who are in turn experiencing difficulty in obtaining supplies of raw material.

HIGHER PRICES ON SOLDERING IRONS.

Prices have again been marked up on soldering irons, jobbers' quotations being 4c. per lb. higher than a week ago. Quotations to the retail trade are now as follows: 1 to 1½ lb., 37c. per lb.; 2 lb. and over, 34c. per lb.

COIL CHAIN DEARER IN TORONTO.

Jobbers in Toronto have this week advanced the price of coil chain about 30c. per 100 lb. The ruling figures are now as follows: ¼ inch, \$6.75; 5-16 inch, \$4.75; ¾ inch, \$4.30; 7-16 inch, \$4.15; ½ inch, \$4.05; ⅝ inch, \$3.85; ¾ inch, \$3.75.

WHERE GUNLOCKS WERE FIRST MANUFACTURED.

THE dispute which arose in the Wolverhampton gunlock trade the other day, but which has now been happily settled by the concession of the demands of the workpeople, has served to draw attention to a most interesting, if somewhat old-world, industry, says Ironmonger, London. The manufacture of gunlocks has been carried on at Wolverhampton from the time when gun-making first obtained a foothold in this country. Why it should have settled there and in Darlaston, Wednesbury, and other Black Country towns is rather difficult to explain, seeing that the gunmakers themselves had their places of business in the neighboring city of Birmingham, but no doubt the proximity of these places to the ironworks of the district had something to do with it. However, the industry became firmly established there, and in Wolverhampton especially it thrived wonderfully. At Brazier's factory at one time employment was found for some 400 or 500 men, but that was in the days before the anvil was superseded by the steam-hammer and the file by the milling-machine. Joseph Brazier, the founder of the factory, is remembered as a man of marvelous skill, and proud indeed are those in the trade to-day who can say that they or their fathers came under his tuition.

A good deal of skill is required both in forging and filing the numerous parts of a gunlock. The blade forgers of Sheffield work with accuracy and precision, but those engaged in gunlock making excel them. The work leaves the anvil of a competent smith so perfect in form and so smooth that a novice might be pardoned for imagining it to be all ready for assembling. It is not so, however. It requires to be filed, and this operation is performed so dexterously that when two or more parts work one inside the other, they fit perfectly; the point where they join is imperceptible, and it is impossible to say without microscopic examination whether they be one piece of steel or more. In the manipulation of the various parts of the lock, the filer makes use of a dozen or more different kinds of files, and these vary, too, from a comparatively coarse-cut tool down to a perfectly smooth burnisher. The great aim of the filer is to file perfectly flat and square, and it requires many years of persevering toil to attain the mastery of this extremely delicate, though simple-looking, art. It takes ten days or more to produce a gunlock, and, when completed, it is sometimes worth its weight in gold.

The iron and steel used in the gunlock trade is manufactured exclusively for this purpose at Harborne, a picturesque Wor-

cestershire village some three or four miles from Birmingham. The files used are mostly made in Lancashire.

Nowadays, however, much of the work formerly executed by hand is done by machinery, the steam-hammer taking the place of the forge and the milling-machine superseding the vice; but for all best work hand labor is still resorted to—hence there are still in Wolverhampton some four firms of gunlock filers, and those four produce practically the whole of the hand-made gunlocks that are used.

The introduction of the Anson & Deeley hammerless gun was a sad blow to the gunlock filers. In guns of this type lock plates are dispensed with. The work is fitted into slots, machined underneath the body of the breech action, with which it is incorporated, and it is of a kind which calls for the exercise of a lower standard of skill and dexterity than is required in the production of an ordinary gunlock.

TACK MANUFACTURE.

One of the first processes in the manufacture of tacks, according to Iron and Steel Trades Review, is that of pickling the Bessemer steel or best quality iron sheets. These sheets are about 16 x 36 inches or 20 x 86 inches in size, and quite thin. The pickling solution is of blue vitriol, which removes all foreign substances and renders the metal more pliable to work. A bath of hot lime thoroughly dries the sheets. The sheets are next taken to the cutter, where carefully-arranged steel knives cut the sheets into any width desired, ranging from $\frac{1}{4}$ -inch to 2 inches; each strip retains its original length. The strips now have jagged edges, but, after going through a powerful machine, the rough edges are removed, leaving a very smooth surface. The strips are now ready for the tack machine, the knives of which cut the strips into the thickness required. Each little piece of metal, as it leaves the knives, is forced into a two-sided glove that closes tightly and gives to the tack the point and corrugations which lend to its holding qualities. At the same time, a hammer strikes the broad end of the tack, putting a head on it, and it then drops into a receptacle beneath. The tack is now complete, save the placing in a revolving barrel, or tumbler, which gives a bright finish. Blued tacks are colored by heat, and tinned tacks, after being dipped in the metal, having been previously pickled, are riddled and sieved in a circular drum to prevent their sticking together.

The imports of Canada in the 11 months ending May 31, show an increase of from \$114,548,195 to \$133,765,158. The exports decreased in the same period from \$139,117,112 to \$135,144,648.

ONE SCOTTISH METHOD.

They do some things on the other side of the ocean that we don't do here, remarks a United States trade paper. For instance, there prevails in Scotland a certain method of lending money, with a young man's honesty and industry as collateral. The method is thus described: "A bank permits an individual to open an account, not with a deposit or with a discount, but an actual credit on a certain amount, which the bank practically loans to him, charging him interest on his daily debit. The person is permitted to operate and check against the account just the same as though he had so much cash on deposit. It is not a time loan, but is permitted to stand as long as the bank and the customer are mutually satisfied. From \$500 to \$5,000 is the usual limit of these cash credits or advances. A young man may desire to start in business. He has no capital, and capital is necessary. He applies to a bank for a cash credit, say, \$2,500. The applicant gets some of his friends to become surety to the bank, and the latter opens an account with him with a credit of \$2,500. The sureties are careful to watch the operations of the young man, and careful scrutiny of his bank account is maintained. The bank will expect the account to be a live one, and cheques are to be drawn and deposits made with reasonable frequency. Sometimes the total transactions based upon a very small cash credit are enormous, as much, sometimes, as \$200 or \$300 for a single dollar in a year."

A TRIBUTE FROM HARDWAREMAN.

**** our very able contemporary, **HARDWARE AND METAL**, published in Toronto, a journal which keeps us wonderfully well informed of all that passes in the Canadian hardware world. By the last mail we have received a copy of their spring issue, a remarkable compendium of trade information, wit, and wisdom. We heartily congratulate our contemporary upon such a splendid production.—**Hardwareman**, Birmingham.

WIRE NAILS, TACKS WIRE

Prompt Shipments

The ONTARIO TACK CO.
Limited
HAMILTON, ONT.

BIG IRON PROJECT REPORTED.

THERE were rumors floating around in Montreal, on Thursday, that a big combination of Canadian iron industries, somewhat on the lines of the American Steel and Wire Trust, was on the tapis, in fact, that conferences of several prominent capitalists had already been held and that the scheme was beyond the embryo stage.

The men reported to be behind this deal are of a status in the financial world that warrants it being of the first magnitude. They are Sir Wm. Van Horne and R. B. Angus, the Montreal millionaires and C.P.R. directors; Sir W. C. Macdonald; Hon. Senator Cox, the banking and insurance king of Toronto, and several others of the same type. Rumor places the capitalization of the project away up in the millions, and these men are able to finance it.

It is understood that one of the contemplated moves is an amalgamation with The Dominion Coal Co., of which H. M. Whitney, the Boston millionaire, is the dominant factor, and his presence in Montreal this week lends some color to the rumors.

The proposition is to combine both the coal and the crude iron branches with more finished departments of manufacture.

CATALOGUES, BOOKLETS, ETC.**PETER HAY MACHINE KNIVES.**

Peter Hay, proprietor of the Galt Machine Knife Works, has issued a small price list descriptive of the various styles of knives made by him. This list includes illustrations of the various Peter Hay knives, and should be possessed by all users and dealers in planer, moulding, mitreing, tenoning, jointer, tobacco, splint, shaper, matcher, veneer, cheese-box, hoop cutting, paper, leather splitting, gauge lathe, straw and ensilage cutting, metal cutting, bark grinding or peeling, wood chopping or meat chopping knives. This firm also make all kinds of knives to order.

CHARLES BOECKH, SR., DEAD.

Charles Boeckh, the originator and for half a century the head of the brush manufacturing firm of Boeckh & Sons, died at his home at 164 Bloor street west on Wednesday.

Mr. Boeckh was a native of Germany. In that country his family had for generations been connected with the brush-making industry, so it was natural that when he went to New York, 60 years ago, that he should devote his energies in this direction.

Ten years later he was induced by Rice Lewis & Son, Lyman Bros., and other wholesale firms, to commence business in Toronto. In the 50 years the firm has been established its growth was rapid and con-

tinuous, and it soon took rank with the largest and best of its kind in the country.

Mr. Boeckh retired from active connection with the firm several years ago, but he continued as senior partner until last year, when his sons took it over under the style of Boeckh Bros. & Company.

Though 82 years of age, Mr. Boeckh was an active man, and was around town at the end of last week. He was Conservative in politics, and a member of the Lutheran Church. He leaves a widow and three sons, namely, Emil C. and Charles, jr., members of the firm, and August A., manager of the Montreal branch, and four daughters, Mrs. (Dr.) Wagner, Mrs. Neil Smith, Mrs. John Mahoney and Miss Boeckh.

TORONTO BUSINESS MAN DEAD.

Charles Stark, who died at his home at 50 Bismarck avenue, Toronto, on Wednesday, was a few years ago one of the most prominent business men of Toronto, when, as head of the firm of Chas. Stark & Co., he carried on a large business as dealer and manufacturer of jewelry, guns and all kinds of sporting goods, at the corner of Church and Court streets.

Mr. Stark came to Canada when but a boy from Bridgewater, Eng., and after living in several places in Western Ontario went to Chicago where he started in the

jewelry business. During the Civil War he accumulated a large fortune, but it was all swept away in the great Chicago fire.

He then came back to Canada, and after a short time spent in farming at Park Hill, Ont., came to Toronto, where he built the big business mentioned, and in carrying it on was so successful that he was at one time reputed to be worth a million.

The introduction of the safety bicycle, after he had made a big importation of the high wheels, was the first reverse which, followed by others, caused the loss of a second fortune. Since this time, Mr. Stark has been manager of The Wrex Cash Register Co., besides having an interest in the business known as The Charles Stark Co., dealers in bicycles and sporting goods, in Yonge street. He was the originator of the "catalogue" system, now so prevalent in business methods. Mr. Stark has been in failing health the past few months. He leaves a widow and two daughters.

PERSONAL MENTION.

Mr. McClung, of S. B. McClung & Co., hardware dealers, Trenton, was in Toronto this week.

Mr. C. Beirel, Markham, who recently added a hardware branch to his furniture business, was in Toronto on Thursday. He reported that he was experiencing a nice, steady trade.

CONSTANT EFFORT

in behalf of a good thing is the best talent a business man can possess. It is worthy and it brings success. You are making the best use of your energies and capital when you help push a truly good article into public favor.

Nothing will pay you more than to join us in pushing

THE SHERWIN-WILLIAMS PAINTS.

They represent the highest skill and most conscientious thought in manufacture. They are made to give the consumer satisfaction. They are made to sell over and over again to the man who once uses them. They are made to demonstrate that quality put on the market in the right way is the very surest seller.

We are not content to sell our paints to the dealer, or to make them so they satisfy him alone. We aim ultimately for the consumer's favor, and win it through the dealer.

THE SHERWIN-WILLIAMS CO.

Paint and Varnish Makers

CLEVELAND
CHICAGO
NEW YORK
MONTREAL
BOSTON
TORONTO

DATING AHEAD.

AN interesting paper on the subject of dating ahead was presented to the National Association of Credit Men at Buffalo, by a Mr. Hugo Kanzler, who said, in part:

"It has been said by some that the liberal dating of to-day causes overstocking in a number of cases, and it is frequently the source of embarrassment to the merchant and consequent financial stringency in his business. I do not believe, however, that everyone here present will give his unqualified assent to this proposition, although it is quite probable it may have led to these results years ago in some particular instances.

"The merchant to-day is far more practical in the management of his business affairs, and now more than ever keeps close watch over his stock and the purchasing of it, with the idea of realizing the largest possible percentage of profit on his invested capital in the various departments. Consistent with this purpose, 'shut-down' orders on all buying whenever the department carries what is deemed sufficient stock to meet the estimated demand has become an established rule in all properly-conducted retail stores. Under these circumstances the moneyed man needs no 'time' to arrange his financial affairs to meet his merchandise obligations. The advantage of anticipating his purchase and making a further profit of 1 or 2 per cent. at the expense of the importer and wholesaler being his foremost consideration.

"Is the remedy within our reach to abolish or curtail dating? The answer must be—Yes, if we act concertedly, and do no overbidding.

"Can the trade carry out any uniform agreement as to dating ahead? Again the answer is—Yes. Honest and truthful compliance with the conditions and terms of the compact must be the moral duty of the subscribers; no dodging; no getting behind the true intent; no quibbling or hair-splitting over plain Anglo-Saxon terms; and no trade discounts as a mere subterfuge. Agreements of this character should be couched in plain, unmistakable business phraseology—in simple and comprehensive terms free from all legal verbiage. Only firms of unquestionable reputation and honor, whose signatures in themselves are a guarantee of good faith, should become parties to the contract. The offering of the incentive of a certain percentage as 'trade discount' must be absolutely prohibited, and special concessions to induce a sale be made on the marked price of the goods and not allowed in any other manner.

"Importers, wholesalers and jobbers should stand firmly together in whatever

they do as to the agreement or arrangement that they may enter into, and any violation should be laid before a committee of arbitration appointed for that purpose. If that body after a hearing 'find' the party blameworthy, the name of the offender should be dropped from the agreement for 'unbusiness-like conduct' towards their fellow merchants. From a moral point of view this will certainly prove a salutary warning to others, and will receive the commendation from every business community, for 'What is left when honor is lost?'"

A MOTHER-MADE MAN.

A well-known gentleman was introduced at a great public meeting as a "self-made man."

Instead of appearing gratified by the tribute, it seemed to throw him, for a few moments, into a "brown study." Afterwards they asked him the reason for the way in which he received the announcement.

"Well," said the great man, "it set me to thinking that I was not really a self-made man."

"Why," they replied, "did you not begin to work in a store when you were ten or twelve?"

"Yes," said he; "but it was because my mother thought I ought early to have the educating touch of business."

"But then," they argued, "you were always such a great reader—devouring books when a boy."

"Yes," he replied; "but it was because my mother led me to do it, and at her knee she made me give an account of the book after I had read it. I don't know about

being a self-made man. I think my mother had a great deal to do with it."

"But, then," they urged again, "your integrity was your own."

"Well, I don't know about that. One day a barrel of apples came to me to sell out by the peck, and, after the manner of some storekeepers, I put the bad ones at the bottom and the best ones at the top. My mother called me and asked me what I was doing. I told her, and she said: 'Tom, if you do that, you will be a cheat.' And I did not do it. I think my mother had something to do with my integrity. And, on the whole, I doubt whether I am a self-made man. I think my mother had something to do with making me anything I am of any character or usefulness."

"Happy," said Dr. Lorimer, who told the story, "the boy who had such a mother; happy the mother who had such a boy, so appreciative of his mother's formative influence."

NOVEL TRUCK FOR HANDLING BARRELS.

An Alabama man, according to an exchange, has invented a peculiar truck for handling barrels. It consists of the combination with the axle of curved gripping jaws, more like a great pair of plumber's pincers than anything else. The levers operating the jaws form the handles of the truck. In practice, the truck is run up to the barrels and the jaws clamped around the bottom and then raised, the whole procedure consuming but a few seconds. The two lever arms are held firmly together by a linking clasp, with a spring-pressed ratchet, which is easily released for unshipping the barrel.

NEW MODELS OF 1899**Iver Johnson Cycles****\$25 AND \$35****Good wheels Cheap.****OTHER MODELS, \$40 \$50 \$60 \$75****Honest Cycles at Honest Prices.****SEND FOR CATALOGUE.****Branches—**

NEW YORK—99 Chambers St.
BOSTON—408 Washington St.
WORCESTER—304 Main St.

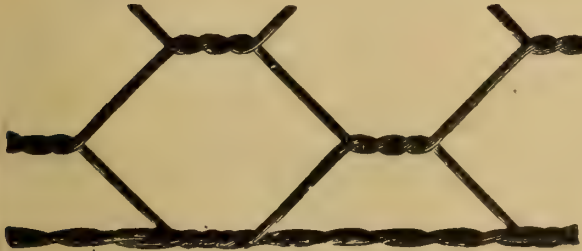
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Fitchburg, Mass.

H. S. HOWLAND, SONS & CO.

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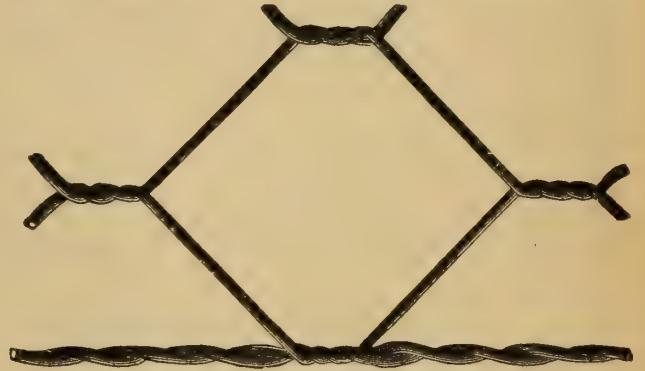
In Stock POULTRY NETTING In Stock



$\frac{1}{2}$ -in. Mesh, 19 Gauge, 30 in. wide.

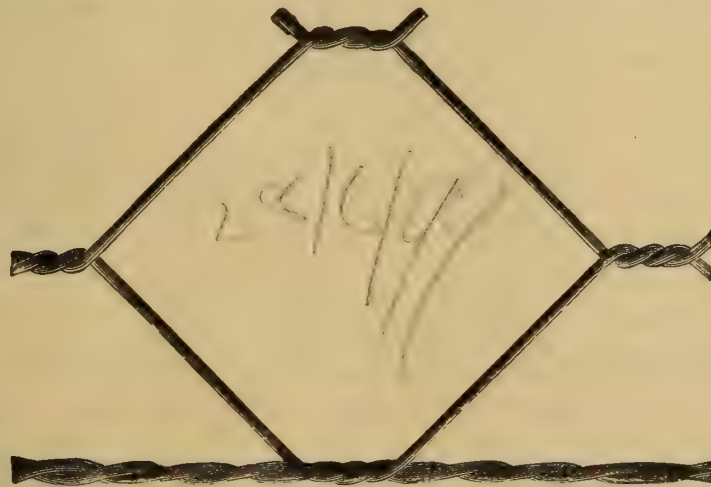
$\frac{3}{4}$ -in. Mesh, 20 Gauge, 24 in., 36 in. wide.

1-in. Mesh, 20 Gauge, 30 in., 36 in. wide.



1 $\frac{1}{2}$ -in. Mesh, 19 Gauge, 24 in., 30 in. wide.

IN STOCK.
Orders filled at
market prices.



2-in. Mesh, 19 Gauge, 12, 18, 24, 30, 36, 42, 48, 60, 72, 84-in. wide.

IN STOCK.
Orders filled at
market prices.

BARB WIRE.



4-Barb, 4 in. between.

4-Barb, 6 in. between.



2-Barb, 5 in. between.

PLAIN WIRE.

Oiled and Annealed, 10, 11, 12. Annealed (Hay Balling) 14.

Plain Galvanized, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Tinners' Wires, 7, 8, 9, 10, 11, 12.

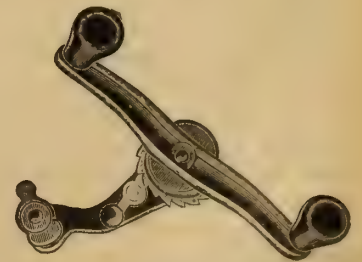
WIRE STRETCHER.



$\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{3}{4}$ -in



Hercules.



Samson.

H. S. HOWLAND, SONS & CO., TORONTO.

Graham Cut and Wire Nails are the Best.

TRADE IN OTHER COUNTRIES THAN OUR OWN.

ON Monday there was an active market for G.M.B. Scotch pig iron warrants, and the price advanced on the Glasgow Exchange to 65s. 1d. On Tuesday the market was a shade easier, and on Wednesday and yesterday, although there was no real weakness, the price eased to 64s. 8d.; to-day the market closed higher at 65s. 3d. cash, an advance of 1s. 2½d. since last Friday. Shipments continue on last year's level, and the stocks in Connal's stores are practically unchanged.—Iron and Steel Trades' Journal, June 10.

WIRE NAILS IN THE STATES.

The advance of 25 cents per keg on wire nails made by the American Steel and Wire Company, which went into effect June 1, is being strictly maintained by the manufacturers. Merchants in need of nails are ordering, the advance apparently not restricting purchases. The American Steel and Wire Company have issued a circular to the effect that after July 1 the practice of allowing a discount of 2 per cent. for cash in 10 days on wire nails will be discontinued.—Iron Age.

NEW YORK METAL MARKET.

PIG TIN—There was distinctly firmer tone to the market, yet no radical change in prices. The turn had for its basis, continued steady depletion of spot stocks and somewhat stronger tone to advices from foreign markets. There was no remarkable buying here, nor more than fair demand, but the aggregate business seemed somewhat above the average of the preceding two days, and was mostly at Tuesday's prices. At the close the quotations were in line with 25.65 to 25.75c. for 5-ton lots, and 25.75 to 25.85c. for single tons, prompt or current month's delivery.

COPPER—In nearly all respects the market remains virtually the same as it has been for a considerable time past. Consumers are conservative, because of the high cost of the metal and the strong probability that there will be more than enough copper to go around during the balance of the year. Sellers, however, are making no new inducements to facilitate business. The popular quotations are 18c. for Lake Superior ingot, 17½c. for electrolytic bars, etc., and 17½c. for casting; but it is an open secret that large lots may be secured at ⅓ to ¼c. less for future delivery.

PIG LEAD—The demand in this quarter has continued moderate and purchases involving other than comparatively small lots are still very exceptional. There are no unusual offerings, however, nor other disturbing influence and prices remain quite firm

at \$4.45 to \$4.50, according to quantity and delivery, with the latter most generally quoted.

SPELTER—Dealings are still very moderate in this quarter and the demand is without improvement. Offerings continue free, particularly for future delivery, and have sufficient weight to keep prices unsettled and weak. Prompt shipments are offered at 6c. delivered here, and later shipments at a fraction less.

ANTIMONY—Regulus is selling in a moderate way only, and remains steady in price at 10 to 11c., as to brand.

TINPLATE—The greater portion of consumptive and jobbing trade wants is still being filled from contract deliveries, and there is very little movement at present outside of ordinary store trade. Prices remain without important variation.

IRON AND STEEL—All crude material is very firm at virtually unchanged prices, and the demand continues remarkably good for the season, particularly in second quality foundry pig iron, some good-sized lots of which were reported sold for delivery during the last quarter of the year.

The highest prices of the year prevail for all manufactured iron and steel, and enough business is being put through to keep the market strong.—N.Y. Journal of Commerce, June 22.


ADVANCE IN WROUGHT IRON PIPE.

An important advance was made last week in wrought iron pipe, the base discount being made 50 per cent. instead of 60 per cent. as heretofore. The market is now represented by the quotation of 50 and 10 and 10 and 5 per cent. on carload lots, and on less than carload lots of discount 50 and 10 and 10 per cent. There is, however, a marked scarcity of pipe, and manufacturers or jobbers who are in a position to make prompt shipments can readily obtain higher prices.—Iron Age.

IRON PIPE IN THE UNITED STATES.

Late last week an advance was agreed upon for merchant pipe by the individual manufacturers in the same manner that former changes in price have been made. The National Tube Co. is still engaged in examining titles and settling up other details, and is doing nothing with the execution of the business of the mills. The directors have not met since the meeting some time ago to elect officers. The advance in pipe amounts to exactly 25 per cent. on the advanced figure quoted last week, which was 60 and two 10's, as against 60 and three 10's formerly quoted, and was made by reducing the base discount from 60 to 50.—Iron Trade Review, June 15.


CANADIAN ADVERTISING is best done by THE E. DESBARATS ADVERTISING AGENCY, MONTREAL.



COVERT MFG. CO.
West Troy, N.Y.
Steel Carriage and Wagon Jacks,
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FOR SALE BY JOBBERS AT MFRS. PRICES.




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HAND AND POWER, easiest running made. Manufactured in every style and variety. Our power machines will meet every requirement. Our flexible shafts are tempered steel, and will not heat. 1899 catalogue ready.
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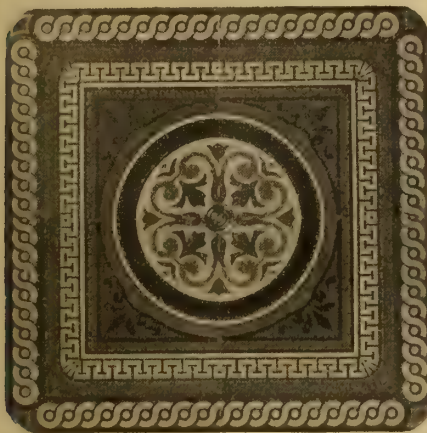
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Bargain prices in twine usually mean just so much reduction in the quality and make.

PLYMOUTH

is cheapest because it is best and goes farthest.

DISTRIBUTERS, PLYMOUTH BINDER TWINE AGENCY, 54 Bay Street, TORONTO.



ELEGANT SEAMLESS STOVEBOARDS

"Elegant" in name.
"Elegant" in design.
"Elegant" in finish.

Our design for Stoveboards for 1899 is just out, and is without doubt the highest class of work we have ever turned out. In view of our past work in this line, this is saying a good deal.

Following the latest "fad" the design is a unique imitation of tile work; while the blending of the colors are so pleasing that these boards will sell at sight.

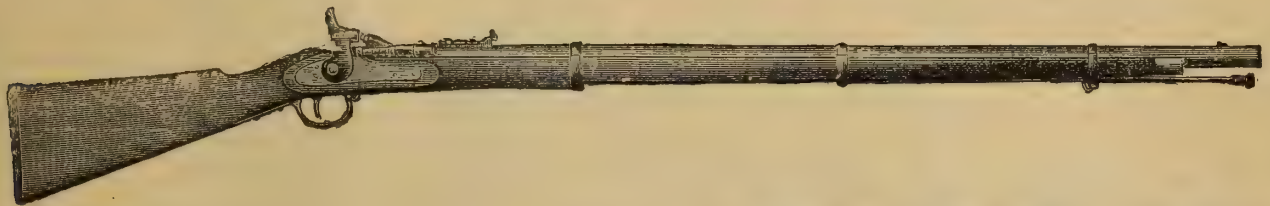
Retaining their favorite features, seamless and no corner clips, they will be made lithographed and crystallized. Quality highest, price low as the lowest. See samples before placing orders.

Absolutely Seamless.

No Corner Clips

The Thos. Davidson Mfg. Co., Limited, Montreal

SNIDER RIFLES



We offer a limited number of **Short Snider Rifles** in good serviceable condition complete with sword bayonet.

— ALSO —

a limited number of **Long New Snider Rifles**. These are **absolutely** new rifles never having been issued, and with each is the ordinary three cornered bayonet.

The quantities are limited. We solicit enquiries from the wholesale trade.

LAMPLOUGH & McNAUGHTON, Montreal.

AN ACETYLENE REFLECTOR.

AMONGST the newest inventions in the sphere of war technics, according to an exchange, is an acetylene reflector, designed by Lieut. von Kries. The fact cannot be disregarded that acetylene will play an important part in war, though, perhaps, not so important as some enthusiasts would ascribe to it, who believe that acetylene will rival, if not entirely replace, electricity. The acetylene industry has hitherto been busy constructing only lamps, etc., but Lieut. von Kries is the first to have formed an acetylene reflector, and, in the opinion of Prof. Goeltig, with great success. The developer of this portable reflector can also be connected with a specially-constructed operation lamp for use in the operating and dressing tent of the ambulance detachment.

The reflector, which is intended especially to serve for searching for the wounded on the battlefield, consists of an acetylene developer borne on the soldier's back, and the reflector itself, which is fixed to a detachable stand made of a Mannesmann tube. The two portions are connected by metal tubing. The developer is filled with about one kilogram of calcium carbide, and gives out a light of 50 to 60 normal candle-power, lasting about eight hours. By means of a special arrangement of parabolic magnifiers, this candle-power is doubled. The developer is not liable to explode, and is self-regulating. The reflector itself is made of nickel, and can be manipulated with ease, turning in all directions. By the use of this new invention the wounded can be seen, even in unfavorable circumstances, at a distance of 80 to 100 metres. The lamp can be also used in the operating tent, and is far more practical than all former kinds of so-called ambulance lamps, especially electric and benzine lamps, which were found absolutely useless in the camp from technical reasons. It is especially noticeable for its suitable arrangement, and the possibility of turning it in all directions, and, if it shows itself to be as good as is asserted, will supply a need in army surgical circles.

How far Von Krie's acetylene reflector will answer the expectations of its admirers will be seen from thorough examination; it seems, however, that, apart from sanitary purposes, it may be used on railways and for other objects where not too great a light is required. Whether, however, the introduction of acetylene lamps for all the movements of troops is advisable is worth discussion. Whereas, for instance, 10 fillings would be sufficient for the first part of a campaign for the ambulance department, as a battle is not fought every day, and the apparatus is only required during or after a

battle, the supply for the lighting of transport, in which case the lamps would be required every night, would have to be considerably greater, and it is, therefore, doubtful whether it would be possible to take enough calcium carbide for the purpose. Moreover, even the most simply-constructed acetylene lamps require a certain amount of technical dexterity. Whether everyone will so quickly learn their use may be doubtful, while a sufficient number of men, especially patrol chiefs, can be trained for the comparatively small number of reflectors, etc.

THE MAN WHO THINKS.

A Chicago business man, of more than local reputation, says that his greatest trouble through his commercial career has been in his search for the employe who thinks, remarks Michigan Tradesman. The average holder of a position goes through his routine of duty in a stupid "dumb driven cattle" manner, absolutely refusing to think things out for himself, and thus possibly improve in method the system attending his individual line of duty. An employer very soon learns to regard an employe with interest who continually asks questions concerning his work, who seems to concentrate his mind upon his task, however insignificant, who seems to think and enjoy thinking and working. That man's talent does not long remain folded in a napkin, but speedily gains for its owner value received, and for its owner's employer the peace of mind that can only come to a man of large business responsibilities through the honest, conscientious services of his force, through men who think.

PROMISING YEAR FOR N. S. COAL.

In the annual report of the Dominion Coal Company, President Henry M. Whitney says: "The increasing business of the company made it advisable to build an additional pier at Sydney, which has been done and charged to surplus for the year. It was also deemed advisable to provide increased facilities for banking coal during the winter, which has also been done. With the exception of some additional equipment for the railway, ordered but not yet delivered, all the expenditures necessary for mining and shipping the largely increased output have been made and paid out of the surplus earnings within the last two years without any increase in the capital account. Since the close of the fiscal year, February 28, 1899, \$58,500 of the bonds of the company have been retired through the sinking fund, leaving the bonded indebtedness \$2,876,500. In addition to the increase in business expected from shipment to the United States during the coming year, the Canadian business promises to be much larger than ever before.

TRAVELING EXPENSES OF JOBBERS' SALESMEN.

From Iron Age.

DIAGRAM.—The following diagram shows in tabular form the sales and expenses during a portion of a year of the four travelers of a jobbing house doing an annual business of about \$130,000.

New Travelers.—By way of explanation it might be said that the last two travelers are new men on the road, this being their first year, and therefore the salary seems small as well as their sales. But as regards results, are not as satisfactory as older men.

Mail Orders.—The travelers are only credited with orders taken by themselves, as all letter orders from their customers do not go to their credit.

Use of Record.—A record kept like this serves many useful purposes in business, as it shows which men are doing the work and the cost of the same. Where such a record is not kept the value of the different salesmen is a matter largely of conjecture.

This table may be shown to the men and be the means of stimulating them to greater effort in the future.

Bonus for Best Results.—By way of encouragement it may be advisable to offer a bonus or extra pay to the man who does the most work at the least expense; or who may be able to increase his sales the next year even 5 or 10 per cent.

Changes.—The man who costs too much for sales made can be taken from the road and his place given to another.

Method of Keeping Record.—The record of each man's sales is kept separate on a binder reserved for his own use, and postings made from this direct to ledger and amount of sales credited to merchandise account each month:

Summary of Travelers' Sales and Expenses.

TRAVELER.	Traveling expenses.	Salary.	Total expenses of selling.	Per cent. of selling.	Amount of sales.
A.....	\$821 20	\$610	\$1,431 20	5 1/2	\$25,798 21
B.....	753 80	72	1,473 80	7 4-5	18,769 80
C.....	710 06	4 1/2	1,178 00	7	16,745 49
D.....	821 72	\$19	1,340 72	11	11,839 72
Totals...			\$5,423 78	7 2-5	\$73,154

METAL IN LONDON.

The wide difference between prices of leading metals, on June 9, in London is interesting. The prices were as follows:

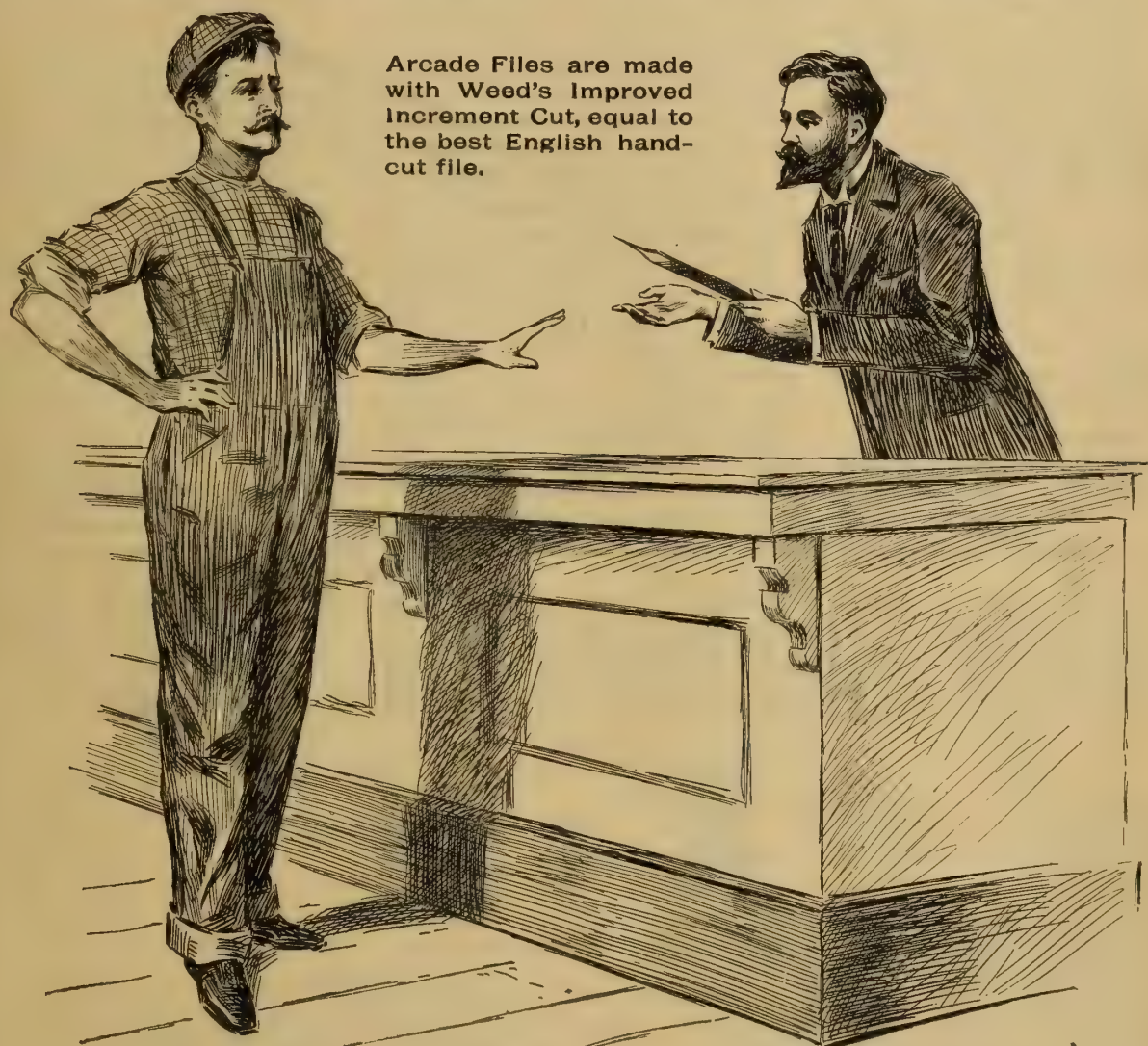
	1899.	1898.
	£ s. d.	£ s. d.
Pig tin, spot ..	117 3 9	68 15 0
G.M.B. copper, spot ..	76 10 0	50 17 6
Pig lead.....	14 5 0	13 12 6
Spelter	27 11 3	19 8 9

The WORLD'S GREATEST FILE WORKS

ESTABLISHED 1842.

There is no other file "just as good."

THE ARCADE IS THE BEST



Arcade Files are made with Weed's Improved Increment Cut, equal to the best English hand-cut file.

"I want an ARCADE file."

"We are all out of ARCADE files. Try this; It is just as good."

"No, Sir. I want the ARCADE. It cuts faster and wears longer than any other file made."

NEW YORK:
97 Chambers St.

SAMUEL W. ALLERTON,
President.

THE ARCADE FILE WORKS

Works: ANDERSON, IND.

COURTLANDT C. CLARKE,
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ALFRED WEED,
Vice-President and Gen'l Mgr.

MARKETS AND MARKET NOTES.

QUEBEC MARKETS.

MONTREAL June 23, 1899.

HARDWARE.

THERE has been a fair volume of business maintained in general hardware during the week. The only changes of moment since last report are advances in black iron pipe and coil chain, all other lines of material being as last reported. In the United States everything still points upwards, and it is also understood that the result of a visit from one of the big guns of the Steel and Wire Trust last week is that all its material is to be sold strictly net cash, 30 days, in future. Smooth steel wire has been quite active, and so have wire nails.

BARBED WIRE—Business moderate and prices steady on the basis of \$3 f.o.b. Montreal.

SMOOTH STEEL WIRE—A very active trade is doing at \$2.60 f.o.b. factory points.

FINE STEEL WIRE—Quiet, with discounts 25 per cent.

GALVANIZED WIRE—There is a good trade passing, and the base is firmly held at \$3 for No. 9.

BRASS AND COPPER WIRE—Moderately brisk, with discounts 50 and 2½ per cent. on brass, and 45 and 10 per cent. on copper wire.

FENCE STAPLES—Demand continues active for these. We quote: \$3.05 for bright, and \$3.65 for galvanized per keg of 100 lb.

OTHER STAPLES—The same remarks apply. Discounts are: Cooper, 55c.; poultry netting, 45, and electrician, broom, bed, etc., 40 per cent. off.

WIRE NAILS—There is a brisk demand, and prices are held firmer, no goods now being obtainable in jobbing lots under \$2.65, and we quote \$2.65 to \$2.70 as to the size of the order. Miscellaneous discount unchanged, 75 and 5 per cent.

CUT NAILS—In fair request and firm in tone. We quote \$2.15 per keg f.o.b. Montreal, Toronto, Hamilton, London and St. John, N.B.

HORSE NAILS—There is only a quiet trade in these. Discounts are 50 per cent. on standard, and 50 and 20 on Acadia.

HORSESHOES—Trade is quiet. We quote: Iron shoes, light and medium pattern, No. 2

and larger \$3.40; No. 1 and smaller, \$3.65; snow shoes, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; XL steel shoes, new light pattern, No. 2 and larger, \$3.65; No. 1 and smaller, \$3.90; feather-weight, all sizes, Nos. 0 to 4, \$4.90; and toe weight steel shoes, all forward, all sizes \$6 f.o.b. Montreal, St. John, N.B., and Halifax, N.S. Delivered f.o.b. in Toronto, Hamilton, London and Guelph 10c. per 100 lb. extra.

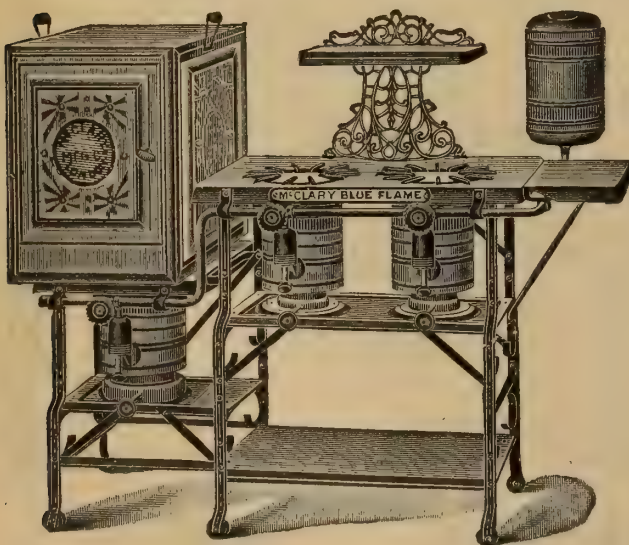
TACKS—As last reported. We quote: Carpet tacks, blued or bright, for 6, 8 and 10-oz. assorted, \$4 per gross, with 45 per cent. off; tinned do., \$6 per gross with 45 per cent. off.

DOUBLE-POINTED TACKS—Much about the same: Discounts in dozens 85 and 10 per cent., and in bulk 40 per cent.

SCREWS—Business is fair and values firm. Discounts are: Flat head, bright, 82½ and 5 per cent.; round head do., 75 and 5; flat head, brass, 75 and 5; round head do., 67½ and 5.

BOLTS—Business is fair at the advance. Discounts are: Carriage bolts, 5-16 and

Wickless Blue Flame Oil Stoves



For Coal Oil—two and three burners.

Gives a clear blue flame of intense heat and does not smoke.

Our patented sight feed shows you what quantity of oil is being used.

The measuring cup always retains just sufficient oil for lighting the burner (**no waiting**).

Easy to operate.

TURN ON THE OIL,

TOUCH A MATCH,

THE BURNER DOES THE REST.

Order a sample.

We ship orders quick.

The McClary Manufacturing Company

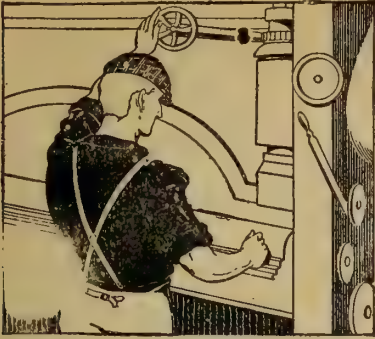
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It isn't our fault that nobody else is making good galvanized iron.

Apollo Iron and Steel Company, Pittsburgh.

Cements { **PORTLAND
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31 Wellington street, MONTREAL

English Castor Oil

GUARANTEED PURE.

Pharmaceutical, Tasteless, Cold Drawn
First Pressure
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In cases of 2 tins and in barrels. Stocked
by all Hardware, Oil and Color men.

The Hull Oil Manufacturing Co.
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Agents for Canada

MONTREAL

CANADA IRON FURNACE CO.,
Limited

Manufacturers of

CHARCOAL PIG IRON

MONTREAL.

BRAND "C.I.F." THREE
RIVERS

PLANTS AT

Radnor Forges, Que. Three Rivers.
Lac a lac Tortue. Grand Piles.

Geo. E. Drummond,

Managing-Director and Treasurer

smaller, 57½, per cent.; ¾ and up, 52½ per cent.; full square bolts, 67½ per cent.; machine bolts, 57½ per cent.; coach screw bolts, 72½ per cent., and sleighshoe bolts, 72½ per cent.

NUTS AND WASHERS — The former are firm at the rise: Square, 4c. per lb. with discounts off list, and hexagon, 4½c. Washers in 5-lb. boxes are 50 per cent. discount.

RIVETS — There is a good inquiry for these. Discounts now are: Black and tinned, 50 per cent.; ditto burrs, 45 per cent., while copper rivets and burrs are 35 per cent.

CORDAGE — Trade is good and jobbers are behind with their supplies. Prices are firmer all round as follows: Manila, 11¼c. for 7-16 and up; 11½c. for ¾, and 12¼c. for ¼ and 5-16. Sisal, 10¾c. for 7-16 and up; 11¼c. for ¾, and 11¾c. for ¼ and 5-16. Binder twine: Pure manila, 10½c.; 550 feet, 10c.; sisal, 500 feet, 9½c.

SHOT — No change, with business light at 6c. for ordinary and 6½c. for chilled.

CEMENT — A good jobbing movement is noted in cement. We quote: Belgian, \$1.90 to \$2.10; English \$2.30. to \$2.40, and German, \$2.45 to \$2.65, per cask ex wharf.

FIREBRICKS — Demand fair and prices steady at \$12 to \$23 per 1,000 as to brand.

METALS.

There is no change in the ruling condition of all heavy iron material. Further advances are reported this week at Pittsburg on several lines, while in England pig iron warrants are 1s. 5d. up on the week at Glasgow, and 3s. at Middlesboro. Ferromanganese is \$5 per ton higher at Pittsburg this week than last and old iron rails have advanced \$1 per ton. In more finished material the same strength is noted.

PIG IRON — There have been no important contracts noted here this week, but values are firmly held and \$20.50 represents the inside price laid down for Hamilton pig on spot.

BAR IRON — An active inquiry is noted for this material; in fact, the mills are away behind their orders. Car lots are quoted stiff at \$1.90, with 5c. advance for smaller quantities.

BLACK SHEETS — Jobbers have all the orders they can attend to, and the firm disposition in the United States is maintained. Prices are: 10 to 16, \$2.25; 18 to 20, \$1.95; 22 to 24, \$2.15; 26, \$2.25, and 28, \$2.30.

HOOP IRON — Quite a fair quantity of 2-inch has been moving, and prices are stiff at \$2.45.

STEEL — Firm, and in good request. We quote: Sleighshoe and tire, \$2.50; spring, \$2.70; machinery, \$3, and toe calk, \$3.

SHEET IRON STEEL

All grades for import
at closest prices.

A. C. LESLIE & CO.

MONTREAL.

Sanderson's Cast Steel in stock.

FOX

All-Steel Sash Pulleys

THEY require no Screws—this means a saving of a gross of screws on every six dozen Pulleys.

THEY can be applied quicker than any other Pulley.

THEY are cheap, strong and durable.

NO NAILS

JUST BORE

NO SCREWS

FOUR HOLES

AIKENHEAD HARDWARE CO.

Toronto.

ADAM HOPE & CO.

30 JOHN STREET N.

Hamilton, Ont.

COPPER SHEETS

96 x 30 x 16 oz.

96 x 24 x 16 oz.

GALVANIZED SHEETS

"Juniata," "Queen's Head"
and "Best Best Poplar."

CANADA PLATES

52, 60, 75 and 80 Sheets per Box

TIN PLATES

Charcoal, and Cokes.

TERNE PLATES

IC and IX 20 x 28.

PRICES ON APPLICATION.

NOVA SCOTIA STEEL CO.

Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS MARTIN

Open Hearth Steel

HORSESHOE IRON—Very stiff at \$2.15 per 100 lb.

GALVANIZED IRON—There is a good movement in this material, both from stock and for import. Some sizes are scarce. We quote: Queen's Head, \$4.55 to \$4.80; Comet brand, \$4.30 to \$4.55, according to the size of the order.

INGOT COPPER—There has been a further decline in London of 7s. in the week, but prices are unchanged both here and in New York. We quote 19½ to 20c.

INGOT TIN—Spots have declined 5s. on the week in London. Straits is 5c. down at New York, while L. & F. is unaltered. Here prices have been shaded in some instances, and we quote 29 to 30c.

PIG LEAD—There is no change in this metal, which rules stiff at \$4.25.

LEAD PIPE—In fair request. We quote: 7c. for ordinary, and 7¼c. for composition waste, with 17½ per cent. discount.

IRON PIPE—Despite further advances in the United States and appreciation here prices are away below a parity though the demand is active. This simply means that the largest holder is still well supplied with the lower priced article. We quote: Black pipe, ½ and ¾-inch, \$3.12; ¾-inch, \$3.09; 1-inch, \$3.72; 1½-inch, \$5.14; 2-inch, \$6.82; 2½-inch, \$8.66, and 3-inch, \$11.02. Galvanized pipe, ½ and ¾-inch, \$5.64; 1-inch, \$6.64; 1½-inch, \$7.41; 2-inch, \$10.12; 2½-inch, \$14.03; 3-inch, \$17.16, and 4-inch, \$23.

CANADA PLATES—Inquiry for these is active. Galvanized is 10c. higher. We quote: 52's, \$2.25 to \$2.30; 60's \$2.35 to \$2.40; 75's, \$2.45 to \$2.50; full polished, \$3.10; galvanized Canada plates, \$4.10 for 52's.

TINPLATES—Are active at the rise noted last week. We quote: Coke, I.C., \$3.50; charcoal, I.C., Allaway or Comet brands, \$3.75; do. I. X., \$4.50; Lincoln, \$4; P. D. Crown, \$4.25; do. I. X., \$5.25; Bradley's, \$6.05.

TERNE PLATE—Active and firm at \$6.25.

COIL CHAIN—There has been a general advance in coil chain here, the comparisons being given elsewhere. We quote: No. 6, 10¼c.; No. 5, 9¼c.; No. 4, 8¼c., and No. 3, 7¼c. per lb.; ¼-inch, \$6; 5-16, \$4.75; ¾, \$4.25; 7-16, \$4.10; ½, \$4; 9-16, \$3.95; ⅝, \$3.85; ¾, \$3.65, and ⅞, \$3.55 per 100 lb.

SHEET ZINC—Quiet and firm at 8 to 8¼c.

ANTIMONY—As last reported at 10 to 11c.

SPELTER—Steady at \$7.

GLASS.

There is a quiet trade in window glass. We quote as follows: First break, \$1.80; second, \$1.90 per 50 feet; first break per 100 feet, \$3.50; second, \$3.75; third, \$4; fourth, \$4.25; fifth, \$4.75; sixth, \$5.25, and seventh, \$5.75.

PAINTS AND OILS.

Trade in paints and oils has been rather quiet during the past week. Linseed oil has advanced 2 to 3c. in sympathy with firmer feeling in England. With this exception, prices are unaltered throughout.

WHITE LEAD—Best brands, Government standard, \$6.00; No. 1, \$5.62½; No. 2, \$5.25; No. 3, \$4.87½.

DRY WHITE LEAD—\$4.75 in casks; kegs, \$5.

RED LEAD—Firm; casks, \$4.75; in kegs, \$4.50.

WHITE ZINC PAINT—Pure, 8c.; No. 1, 6½c.; in oil, pure, 9c.; No. 1, 7½c.

PUTTY—We quote: Bulk, \$1.65; bladders, in bbls., \$1.80; bladders, in cases, \$1.95; in tins, \$2.05 to \$2.30.

LINSEED OIL—We quote: Raw, 57c.; boiled, 80c., five to nine-barrels, 1c. less, ten and twenty-barrel lots open, net cash, plus 2c. for 4 months. Delivered anywhere in Ontario between Montreal and Oshawa at 1c. per gallon advance and freight allowed.

TURPENTINE—One to four barrels, 61c., two to four-barrel lots, 1c. less, five barrels and over, open terms, the same terms as linseed oil.

MIXED PAINTS—Firm; \$1 to \$1.20 per gallon.

CASTOR OIL—Firm; at 8¼ to 8½c.

SEAL OIL—36 to 38c.

COD OIL—37½ to 42c.

NAVAL STORES—There is an improved demand for all lines, and prices show no change. We quote as follows: Resins, \$2.75 to \$4.50, as to brand; coal tar, \$3 to \$3.50; cotton waste, 4½ to 5½c. for colored, and 6 to 7½c. for white; oakum, 5½ to 6½c., and cotton oakum, 9 to 11c.

PARIS GREEN—We quote: 250-lb. casks, 13½c.; 50-lb. drums, 14c.; 1-lb. packages, 15c.; ½-lb. packages, 16½c.; 1-lb. tins, 15½c.

MONTREAL NOTES.

Coil chain is 25c. higher all round for every size.

Galvanized Canada plate has been marked up here 10c. per 100 lb.

Black iron pipe has been advanced here by some jobbers, but others are still accepting the same money.

Knox Henry, Montreal, the agent for The Gunn Castor Co., reports good demand for their brass goods. He has already had several shipments, all of which have opened up satisfactorily, and repeat orders are now being sent forward. These goods are made by a new process, and, for looks and wear, are fully equal to solid brass goods.

ONTARIO MARKETS.

TORONTO, June 23, 1899,

HARDWARE.

BUSINESS, while still good, is scarcely as active as it was, generally speaking, a week ago. Wire nails are going out well in small quantities, but cut nails are still quiet. Horse nails are meeting with a fair demand. Trade is fairly good in smooth wire. Galvanized wire is in fair request. Screws, bolts, and rivets and burrs continue in good request. Rope is in fair demand and prices are steady. Trade is keeping up remarkably well in ice cream freezers. A fair trade is being experienced in churns and wringers.

Oakey's 'WELLINGTON' KNIFE POLISH

The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters.

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England.

Agent:

JOHN FORMAN, 644 Craig Street MONTREAL

29 Years. Established 1870. 29 Years.

SEASONABLE GOODS AT RIGHT PRICES.

Barbed Wire Fencing; Agricultural Implements; Bradley Tin; Builders' and Cabinet Makers' Hardware. **Special**—A full line of Tinsmiths' Tools and Machinery—latest improvements.

SEYBOLD, SON & CO - MONTREAL.



YOU WANT THE EARTH!! Yes, and the the earth wants you!! And it will get you. if you go riding any old ramshackle thing you come across. If you wish to ride above the earth instead of into it, buy a

UNION JACK BICYCLE. Manufactured by CHAS. BURKHOLDER, Tilsonburg, Ont.

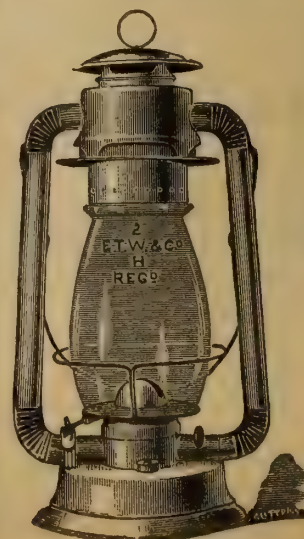
E. T. WRIGHT & CO.

Hamilton, Canada.

"Get the Best."

Mfrs. of

Cages, Tinware, Lanterns, Traps, Stovepipe and Elbows.



Send for new Catalogue.



Diamond Medal Binder Twine

Pure Manila—Guaranteed finest quality of fibre,
and to run 650 feet to the lb.

Headquarters for the celebrated
SEWALL & DAY brands of

Binder Twine

Their twines are unequalled.
The finest on the market.

John Bowman Hardware & Coal Co.

— LONDON, ONTARIO.

JELLSTONE.

We will have this in stock in the course of a few days, put up in 5-lb. packages (white and eight tints) at the same price as barrels.

Don't load up with inferior Wall Coatings at higher prices.

SANDERSON PEARCY & CO.

— — — — TORONTO — — — —

“BICYCLES”

Special June Bargains.

Columbus Roadsters, Racers and Juveniles
Earl Roadsters and Juveniles

Fitted with Dunlop Tires and Garford Saddles. Guaranteed by us to be absolutely perfect, Lamps, Bells, Cyclometers, Saddles, etc., Cycle Catalogue and prices on application.

CAVERHILL, LEARMONT & CO., MONTREAL

Garden and harvest tools are still selling well, and the supply of the latter is more satisfactory. The demand is good for both enameled ware and tinware. Further advances have taken place in both green wire cloth and poultry netting. Soldering irons are also dearer.

BARBED WIRE—The situation is much as before. We quote as follows: \$3.25 to \$3.30 per 100 lb. Plain twist is quoted at the same figure.

SMOOTH STEEL WIRE—Trade is fairly good in oiled and annealed. Business has not yet opened up in hay-baling wire. We quote \$2.60 f.o.b. factory point.

GALVANIZED WIRE—Trade is fair. We quote: Nos. 6, 7, 8 gauge, \$3.40; No. 9, \$2.90; No. 10, \$3.50; No. 11, \$3.55; No. 12, \$3.05; No. 13, \$3.15; No. 14, \$3.90; No. 15, \$4.50; No. 16, \$4.65.

WIRE NAILS—There has been a little livelier movement, although no large lots appear to be wanted. Dealers are evidently protecting themselves against an advance. The base price is still \$2.65 f.o.b. Toronto.

CUT NAILS—There are a few kegs going out, but business does not, on the whole, amount to much. The base price is unchanged at \$2.15, f.o.b. Toronto, Hamilton and London.

HORSE NAILS—Quite a few horse nails have been sold by the jobbers during the week. We quote: Standard, oval head, 50 per cent.; Acadia, countersunk head, 50 and 20 per cent.

HORSESHOES—The volume of business is still light. We quote f.o.b. Toronto, Hamilton, London and Guelph: No. 2 and larger, light, medium and heavy iron shoes, \$3.50; snow shoes, \$3.75; light steel shoes, \$3.75; featherweight shoes, all sizes, \$5. No. 1 and smaller, light, medium and heavy iron shoes, \$3.75 per keg; iron snow shoes, \$4.00; light steel shoes, \$4.00; featherweight steel shoes, all sizes, \$5.00.

SCREWS—Trade continues active and prices unchanged. We quote: Flat head bright, 82½ and 5 per cent. off the list; round head bright, 75 and 5 per cent.; flat head brass, 75 and 5 per cent.; round head brass, 67½ and 5 per cent.; flat head bronze, 67½ and 5 per cent.; round head bronze, 62½ and 5 per cent.

BOLTS—In spite of the recent advance in prices the demand continues as brisk as ever. We quote as follows: Norway bolts, full square, 67½ per cent.; common carriage bolts, 5-16 and under, 57½ per cent.; ditto, ¾ and larger, 52½ per cent.; ditto, full square, 67½ per cent.; machine bolts, all sizes, 57½ per cent.; coach screws, 72½ per cent.; sleighshoe bolts, 72½ per cent.; blank bolts, 57½ per cent.; bolt ends, 62½ per cent.; nuts, square, 4c.; nuts, hexagon, 4½c.; tapping nuts, 60 per

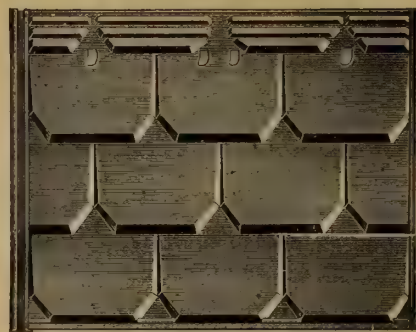
EASTLAKE SHINGLES

are chosen by practical people because of their splendid reliability.

They give absolute protection from lightning—are fire, rust and leak proof

—and are more quickly laid than others because of their special patent side lock. Eastlakes last indefinitely, through all kinds of weather, and are the popular shingles of Canada, because they never fail to give money-saving satisfaction.

If you aren't handling them, send for our catalogue and price list—they're never dead stock.



THE METALLIC ROOFING CO., Limited

1179 King St. West, TORONTO.

cent.; tire bolts, 65 and 10 per cent.; stove bolts, 65 and 10 per cent.

RIVETS AND BURRS—A good trade is still to be noted. We quote: Carriage section, wagon box rivets, etc. (steel), 60 per cent. off the list; ditto (Norway iron), 55 per cent.; black M rivets, (steel) 60 per cent.; ditto (Norway iron), 50 per cent.; iron burrs, 45 per cent.; copper rivets, 35 per cent.; bifurcated, with box, \$1.25; coppered iron rivets and burrs, in 5-lb. carton boxes, 30c. per lb.

ROPE—Trade is fair. The hemp market is again cabled dearer from London. We quote: Sisal, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c. Manila, 7-16 in. and larger, 10½c. per lb.; ¾ in., 11c.; ¼ and 5-16 in., 11½c.; New Zealand, 9½c. per lb.; Deep sea line, 13½c. for water laid, and 14½c. for machine-made; hemp, 7 to 9c.; lath yarn, 8¾c. Clotheslines, 48 feet, 90c.; 60 feet, \$1.20; 72 feet, \$1.50; 100 feet, \$2.

CHURNS—Trade is seasonably good. We quote: Metal frame—No. 0, \$3; No. 1, \$3.20; No. 2, \$3.40; No. 3, \$3.75; No. 4, \$4.50; No. 5, \$5.90. The price of wooden frames is 15c. per churn less than the above. Terms, 3 per cent. off 30 days f.o.b. Toronto.

WRINGERS—A fair trade is still being done. We quote as follows: "Leader," \$60 per doz.; "Royal Canadian," \$58; "Royal American," \$48. Prices are all f.o.b. Toronto, Hamilton, Brockville, and Montreal. Discount, 45 per cent. Terms, four months, or 3 per cent., 30 days.

ICE CREAM FREEZERS—The demand continues brisk. The manufacturers cannot fill orders promptly, and will not promise to

fill an order in less than 10 days. The demand this season has been unusually good.

BUILDING PAPER—Trade is fair. We quote: Plain building, 28c. per roll; tarred lining, 35c., according to quality; tarred roofing felt, \$1.40 per 100 lb.; carpet felt, \$2.25 per 100 lb.

GREEN WIRE CLOTH—Prices have again been advanced. This time, 25c. The quotation is now \$1.75 per 100 square feet.

POULTRY NETTING—The price has been advanced, the discount having been reduced to 50 per cent. The demand is fairly good.

SPADES AND SHOVELS—Trade is fair and discount unchanged at 40 and 5 per cent.

HARVEST AND GARDEN TOOLS—These are in better supply than they were, although there is still a shortage in certain lines, notably hay forks and turnip hoes. Discount, 60, 10 and 5 per cent.

WARE—A good deal of enameled ware moved during the past week, particularly in preserving kettles. Tinware is also in good demand.

GAS AND OIL STOVES—A good many oil stoves are going out, but the demand for gas stoves has not been as good as expected. However, next month is expected to bring an increased business.

PADLOCKS—The price of padlocks has been advanced 10 to 20 per cent. by the manufacturers in the United States.

SOLDERING IRONS—Prices have been advanced 4c. per lb., and we now quote as follows: 1 to 1½ lb. irons, 37c. per lb.; 2 lb. and over, 34c. per lb.

CEMENT—The demand continues brisk. Prices keep firm and unchanged. We quote in barrel lots as follows: Canadian Portland, \$2.65 to \$2.90; English

do., \$3; German do., \$3.10; Belgian do., \$2.70; Canadian hydraulic cements, \$1 to \$1.10; calcined plaster, \$1.90; asbestos cement, \$2.50 per bbl.

METALS.

Black sheets are quoted higher; so is chain, but otherwise there are no changes in prices to note. Metals are, on the whole, firm.

PIG IRON—The market continues strong. We quote No. 1 Hamilton iron at \$18.50 to \$19 at the furnace.

BAR IRON—Trade keeps fairly good, and the base price firm at \$1.90 to \$1.95.

BLACK SHEETS—Prices are from 15 to 20c. higher, quotations now being: 18 to 20 gauge, \$2.60; 22 to 24, \$2.70; 26, \$2.80, 28, \$3. Business is quiet.

GALVANIZED IRON—Trade continues brisk. Fresh import orders are now practically confined to English iron, its laid-down cost being about 20c. per 100 lb. below that of United States make.

COPPER—Trade in both ingot and sheet copper exhibits a little more life this week. Ingot is still quoted at 19 to 19½c. per lb., sheet 23 to 23½c., and bar at 23½ to 25c. The outside markets are firm.

BRASS—Trade continues active with prices as before.

PIG TIN—The demand is not heavy, dealers, in view of the high prices, evidently only buying for immediate requirements. Quotations range from 29 to 30c. for Lamb and Flag, and 28½ to 29c. for Straits.

TIN PLATES—Trade is fair, with prices being firmly adhered to as far as can be ascertained. The base price of bright is \$5.50 per box.

CANADA PLATES—Continue quiet. We quote: All dull, \$2.70 per box; half-polished, \$2.60; all bright, \$3.10 per box.

LEAD PIPE—A fair trade is to be noted. We quote: Ordinary pipe, 7c.; waste, 7½c. Discount, 17½ per cent.

PIG LEAD—Trade is good. We quote 4¼ to 4½c. per lb.

IRON PIPE—The demand continues brisk, and prices are unchanged. We quote as follows: ¾ to ¾ inch, \$3.10; ½ inch, \$3.25; ¾ inch, \$3.80; 1 inch, \$5.25; 1¼ inch, \$7; 1½ inch, \$8.75; 2 inch, \$12; 2½ to 6 inch, discount 50 per cent. Galvanized pipe: ½ inch, \$6; ¾ inch, \$7.50; 1 inch, \$10.50; 1¼ inch, \$14.75; 1½ inch, \$18.50; 2 inch, \$26.

RANGE BOILERS—The demand is good and prices firm. We quote as follows: Galvanized, 30 gals., \$9; 35 gal., \$10; 40 gal., \$11. Copper, 30 gal., \$22; 35 gal., \$26; 40 gal., \$30; discount off copper boilers, 10 per cent.

COIL CHAIN—Prices have again been advanced, and we now quote as follows: ¼ in., \$6.75; 5-16 in., \$4.75; ¾ in., \$4.30; 7-16 in., \$4.15; ½ in., \$3.05; 5/8 in., \$3.85; ¾ in., \$3.75.

SHEET ZINC—Trade is still quiet at 8¼c. for cask lots and 8½c. for small lots.

SPELTER—Trade is quiet and quotations are unchanged at 7½ to 7¾c. per lb. Free offerings are causing an easy feeling in New York.

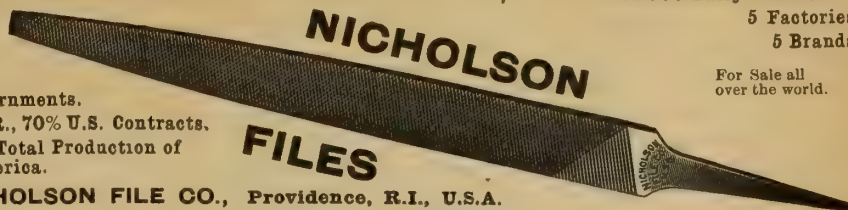
SOLDER—Trade is active. We quote:

16 Governments.

85% R.R., 70% U.S. Contracts.

70% of Total Production of America.

NICHOLSON FILE CO., Providence, R.I., U.S.A.



76 800 Daily Production

5 Factories

5 Brands

For Sale all over the world.

BRITISH PLATE GLASS COMPANY, Limited.

Established 1773.

Manufacturers of **Polished, Silvered, Bevelled, Chequered, and Rough Plate Glass.** Also of a durable, highly-polished material called "**MARBLETT**," suitable for Advertising Tablets, Signs, Facias, Direct'on Plates, Clock Faces, Mural Tablets, Tombstones, etc. This is supplied plain, embossed, or with incised gilt letters. **Benders, Embossers, Brilliant Cutters, etc., etc.** Estimates and Designs on application.

Works: Ravenhead, St. Helens, Lancashire. Agencies: 107 Cannon Street, London, E.C.—128 Hope Street, Glasgow—12 East Parade, Leeds, and 36 Paradise Street, Birmingham. Telegraphic Address: "Glass, St. Helens." Telephone No. 68 St. Helens.

Half and half, 17c.; refined, 16½c.; wiping, 6c.

ANTIMONY—Trade is quiet and featureless. Prices are unchanged at 11 to 11½c. per lb. for Cookson's.

PAINTS AND OILS.

Though there has been some falling off in the volume of business, there is still a good demand reported. Oil, lead, turpentine and prepared paints are moving well, and varnishes are active, while the demand for sundries is about up to the ordinary. There is little doing in paris green, there being a scarcity of potato bugs, etc., in country districts. From all appearances, those who bought heavily will have some stock left on their hands when the season is over. Stocks of whitening are rather scarce here, but there is a sufficiency for current demands. A general firmness is manifested this week. It is interesting to note that, though at this time last year turpentine was easy at 44c., the price is now well maintained locally at 60c., though the primary market shows considerable fluctuation. Linseed oil has again risen 2c., an advance of 4c. since Wednesday last week. The cause of the advance is higher prices in the British market, where a scarcity of seed is noted. White lead is steady and unchanged, as are all sundries. We quote:

WHITE LEAD—Ex Toronto, pure white lead, \$6.12½; No. 1, \$5.75; No. 2, \$5.37½; No. 3, \$5; No. 4, \$4.62½; dry white lead in casks, \$5.10.

RED LEAD—Genuine, in casks of 560 lb., \$4.90 to \$5; ditto, in kegs of 100 lb., \$5.15 to \$5.50; No. 1, in casks of 560 lb., \$4.75; ditto, kegs of 100 lb., \$5.

LITHARGE AND ORANGE MINERAL—We quote: Litharge, 6 to 6½c.; orange mineral, 7½ to 8½c.

WHITE ZINC—Genuine, French V.M., in casks, \$7 to \$7.25; Lehigh, in casks, \$6.

PARIS WHITE—We quote 90c.

WHITING—55c. per 100 lb.; Gilders' whitening, 85c.

GUM SHELLAC—In cases, 24c.

PLASTER PARIS—Ordinary, \$1.75 per barrel; New Brunswick, \$2 per barrel.

PUMICE STONE—Powdered, \$2.50 per cwt. in barrels, and 4 to 5c. per lb. in less quantity; lump, 10c. in small lots, and 8c. in barrels.

LIQUID PAINTS—Pure, \$1 per gallon; No. 1 quality, 90c. per gallon.

SEAL OIL—Is quoted at 59 to 60c. per gallon, and yellow seal at 49 to 50c.

CASTOR OIL—East India, in cases, 9c. per lb. and 10c. for single tins.

LINSEED OIL—Quotations to outside western points are (freight allowed): Raw, 1 to 4 barrels, 57c.; boiled, 1 to 4 barrels, 60c. Prices in Toronto, Hamilton, London, are 1c. per gallon less.

TURPENTINE—We quote for outside western points, freight allowed, 1 to 4 barrels, 61c.; in less quantities than barrels, 5c. per gallon extra will be added and packages charged for. Prices in Toronto, Hamilton, and London are 1c. less than the above. Terms, net 30 days.

COAL.

A fair business is doing. Prices are unchanged. We quote anthracite at Buffalo and bridges: Egg, stove and nut, \$4.25 per gross ton, or \$3.79 per net ton; grate, \$4 per gross ton or \$3.57 per net ton.

MARKET NOTES.

Black sheets are quoted 15 to 20c. higher.

Soldering irons are quoted 4c. per lb. dearer.

The discount on poultry netting has been reduced to 50 per cent.

The price of furnaces and registers has been advanced 10 per cent.

The price of green wire cloth has been advanced, the figure per 100 square feet now being \$1.75 net.

Linseed oil has been again advanced 2c. and is now quoted in Toronto at 57c. for raw and 60c. for boiled.

H. S. Howland, Sons & Co. will next week distribute among their customers an illustrated catalogue on builders' hardware, including such lines as locks, knobs, butts and all trimmings for doors and windows. A copy will be mailed on application.

A HARDWAREMAN'S MARRIAGE.

Mr. W. B. Clements, hardware merchant, Milton, and Miss Bertha F. Deacon, daughter of Mayor Deacon, were married on June 21 at the beautiful home of the bride's father. About 40 guests were present. Many beautiful and costly presents were given to the young couple, including a fine piano from the bride's father. The young couple take a trip to New York with the best wishes of their numerous friends, and HARDWARE AND METAL'S congratulations.

UNITED STATES TRADE WITH CANADA.

A SPECIAL despatch from Washington to The Montreal Herald says: Exports from the United States to Canada continue to increase. The official publication of the Treasury Bureau of Statistics just issued shows the exports in detail during the 10 months ending with April, indicating in many cases the countries to which the goods were sent, and it is practicable, therefore, to compare the exports to British North America in certain of the more important articles with those of earlier years. An examination of these tables shows that in nearly all articles our exports to Canada have steadily increased during the two years in which the new Canadian tariff law has been in operation.

In the finer grades of manufactures, such as cotton cloths, manufactures of iron and steel, etc., goods from the United States also continue to gain, although it was in these lines that the new tariff law was looked upon as most likely to be disadvantageous to American industries.

Exports of cotton cloths from the United States to Canada in the ten months just ended are 50 per cent. in excess of those of last year, and other manufactures of cotton also show an appreciable gain, the increase being from \$1,351,124 in the ten months of 1898 to \$1,573,078 in the ten months of 1899.

Instruments for scientific purposes, including telegraph and telephone, increased from \$256,935 in ten months of 1898 to \$341,859 in the ten months of the present fiscal year.

Builders' hardware increased from \$438,556 in the 10 months of 1897 to \$581,345 in the 10 months of 1898, and \$730,539 in the 10 months of 1899.

Typewriters increased from \$142,591 in 1897 to \$198,993 in 1898 and \$294,579 in the 10 months of 1899.

Manufactures of leather, comprising boots and shoes, increased from \$200,450 in 1897 to \$234,446 in 1898 and \$338,216 in the corresponding months of 1899.

Even in canned beef, which has been the subject of so much discussion of late, the exports to Canada increased from 415,084 lb. in 1898 to 1,525,020 lb. in the 10 months just ended, while in the single month of April, 1899, our exports to that country were 22,341 lb., against 8,684 lb. in the corresponding month of 1898.

Our total exportation to Canada in the 10 months just ended amounts in value to \$73,052,819, against \$66,330,872 in the corresponding months of 1898, and \$52,831,784 in those of 1897. Thus, importations into Canada show a steady gain during the year in question.

On the other hand, the imports into the United States from Canada show a steady reduction, the total imports into the United States from Canada during the periods under review having been \$30,966,674 in 1897, \$26,099,200 in 1898, and \$25,550,538 in the 10 months of 1899.

The following table shows the principal exports from the United States to Canada in 10 months of 1897, 1898 and 1899, respectively:

Exports to Canada from the United States during 10 months ending—

	1897.	1898.	1899.
Agricultural implements ..	\$ 291,107	\$ 542,364	\$ 1,008,076
Books, maps, etc	517,078	596,629	711,198
Corn	2,156,189	4,803,661	5,284,528
Wheat	2,640,131	4,312,797	4,975,760
Wheat flour ..	2,433,333	1,898,805	3,118,969
Cars	100,668	142,523	420,587
Bicycles	585,515	418,025	427,432
Clocks and Watches ..	307,000	266,640	351,064
Coal	7,433,275	7,745,990	8,174,453
Copper ingots and bars ..	32,500	100,618	128,594
Cotton cloth ..	1,647,062	593,718	730,982
Scientific instruments ..	235,703	256,935	341,859
Typewriters ..	142,591	198,993	294,579
Sewing machines	76,392	117,695	124,845
Hams	190,596	309,031	483,503
Lard	201,689	181,739	369,882
Seeds	524,668	467,595	1,359,992
Tobacco	1,421,178	611,674	923,865
Lumber	588,922	819,326	1,062,241
Refined mineral oils	635,184	663,249	681,228

MANITOBA MARKETS.

WINNIPEG, June 19, 1899.

THE event of the week has been the declaration of the award of the board of arbitration in connection with the carpenters' strike. The carpenters had demanded a minimum wage of 30c. per hour and a 9-hour day. To these demands the contractors had entirely refused to accede. The award is a minimum wage of 27 1/4 c. per hour, a 10-hour day and Saturday afternoons off. The carpenters held a meeting on Saturday afternoon which was very largely attended. They accepted the award and express themselves as well satisfied with it. Upon inquiry it would appear that the bulk of the contractors are equally well satisfied.

Preparations for the Industrial Exhibition are being pushed with great vigor, and already a large amount of space has been allotted, especially in the machinery and implement sections. Among the outside firms (not represented in Winnipeg) who will exhibit are: Carriages—Dowagic & Co., of Dowagic, Mich.; McLaughlin, of Oshawa, Ont.; Tudhope, of Orillia. Carriage tops and harness—Geo. A. Rudd, of Toronto, and Munroe & McIntosh, of Alexandria, Ont. Machinery—The Minneapolis Threshing Machine Co.; Noxon & Co., of Ingersoll, Ont., and the Metallic Roofing Co., of Toronto.

Building is being pushed. The founda-

tions of the R. J. Whitla, Codville & Co. and McCleary Manufacturing Co.'s warehouses, and the Dominion Bank and Bank of Commerce are well on their way to completion. In all cases the foundations put in are of enormous strength.

Prices of hardware have not altered much during the week. Manufacturers have issued a new list price for files, which indicates an advance of from 15 to 17 1/2 per cent. This has not affected prices here as yet, but will do so almost immediately. Bar iron has advanced 10c. per 100. Cut nails have also advanced from \$2.55 to \$2.65 base. Wrought iron pipe has also advanced sharply, the quotation now being 50 off instead of 60, or an advance of 10c. on each size. Prices in all lines are very firm and business active.

There is likely to be a shortage of glass in this market and builders appear to feel uneasy as to the prospects of getting what they need in good season. Prices are very firm.

Kent Bros. have rented a building on Ontario street, Kingston, and will commence the cleaning of mica from their mines in the township of Bradford. They have orders for all the mica that they can mine this season.

The popularity of the penny-in-the-slot gas meters, an exchange says, is attested by the fact that during 1898 in the city of Derby, England, alone, 9,500,000 cubic feet of gas were sold in this way. There were collected 375,252 pennies, the weight being nearly three and one-half tons. The amount of gas sold for one cent was a trifle over twelve cubic feet.

FOR SALE.

A NEW MARLIN RIFLE

Never been used. Just the Rifle for practice. Price \$30. Will take \$20.

19 Board of Trade, Montreal.

SUPERIOR TO ALL OTHERS

Banner Cold Blast Lanterns
Victor Acetylene Bicycle Lamps
Brilliant Light, Wind Proof

For sale by the trade generally from the Atlantic to the Pacific.

Manufactured by

THE ONTARIO LANTERN CO.

Hamilton, Ont.

(25)

McLashill, Dougall & Co
Fine Varnish & Japan
Manufacturers.
Montreal
Price Lists on application

The Demand for our New Range

THE

IMPERIAL OXFORD

Increases daily. Every one sold causes other sales, so enthusiastic are housekeepers over its improved features.

**ITS EASE OF REGULATION
ECONOMY IN USING FUEL
DIFFUSIVE FLUE CONSTRUCTION
FRONT DRAW-OUT GRATE
OVEN THERMOMETER
DRAW-OUT OVEN RACK**

and other conveniences, give it a superiority quickly appreciated.

You're sure of speedy sales when handling the Imperial Oxford.

Better write us for full information and price list.



The Gurney Foundry Co., Limited, Toronto

The Gurney-Massey Co., Limited, Montreal.

Winnipeg Agents: 155 and 157 Lombard St.

Vancouver Agent: C. A. Godson, 151 Hastings St.

METALS

*Antimony,
Copper,*

*Lead,
Tin,*

Zinc.

From stock or for importation.

M. & L. Samuel, Benjamin & Co.

ENGLISH HOUSE:

Samuel, Sons & Benjamin

64 Fenchurch Street, London, E.C.

26 to 30 Front St. West **TORONTO.**

HEATING AND PLUMBING

A HINT TO THE PLUMBER.

SO much is assumed to devolve on the plumber in the present age that we were not surprised to receive a communication recently, asking us to agitate among the trade all over the country the advisability of drawing the attention of their clients owning summer resorts to the necessity of putting them in sanitary condition.

At first sight we were inclined to say that, after all, it is no part of the plumber's duty to remind others of what they owe to the community, particularly when it may be urged that they—the plumbers—in making such suggestions, are actuated by interested motives.

On second thoughts, however, it seems a good plan enough that every plumber should take an interest in the sanitary condition of summer resorts in his neighborhood, and, where the owner is a friend or client, suggest an examination of the sanitary appliances generally throughout the building, with the object of ascertaining any existing defects and effecting their removal.

We have an illustration in mind of such action a few years ago in a seaside summer hotel not 100 miles from this city, which had changed hands, and which was, to all appearance, in excellent sanitary condition. A cautionary suggestion led to an examination, revealing a condition of foulness which, if it had not been discovered in time, would have involved loss of health and of money to the proprietor.

The basement of the hotel was being used, among other purposes, for the location of the water-closets and the urinals. The flooring was in a rotten condition; the floor beams resting on the sand, into which a number of sinks emptied their contents, and when this was taken in connection with leakage from the joints of the sewer-pipe, an excellent opportunity for the combination of foul and dangerous gases was afforded. The water-closet traps were not vented, and a general condition of filthiness existed. The building was promptly overhauled and put into a sanitary condition, and the results since have been satisfactory to all concerned.—Sanitary Plumber.

NEW TEST FOR PIPE COVERINGS.

A new method of testing the efficiency of coverings for steam pipes was described by Charles L. Morton before Section D of the American Association, which should be

capable of yielding more accurate results than those in common use. By this method, a section of the steam pipe is heated electrically by means of a coil of wire in oil within the pipe. The amount of energy necessary to keep the pipe at a definite temperature is measured. Since the energy thus supplied is just sufficient to maintain a constant temperature, it must, therefore, equal the energy lost by the pipe. Hence, from the electrical energy supplied, the author is enabled to calculate the heat lost from the outside of the pipe.

PLUMBING AND HEATING NOTES.

Tenders are asked for a new town hall for Fenelon Falls, Ont.

C. W. Ward intends erecting a four-storey building in Kamloops, B.C.

The Diamond Furniture Factory, Waterloo, Ont., intend building a two storey addition.

A large pulp mill and a nickel smelter will likely soon be erected at Sault Ste. Marie, Ont.

The Acetylene Gas Machine Manufacturing Co., of Toronto, Limited, has been incorporated.

Tenders for heating and ventilating the Orangeville, Ont., goal and court house will shortly be called for.

Mr. Stevenson, who proposes erecting a \$10,000 hotel, in Dundas, Ont., is asking tenders for the building.

TORONTO BUILDING PERMITS.

Building permits have been issued in Toronto this week to G. S. McConkey & Son for a three-storey brick addition and alterations to restaurant, 31 and 33 King street west, to cost \$1,800; architect, E. J. Lennox; to D. R. Wilkie, two-storey brick house on east side of Homewood avenue, near Wellesley street, to cost \$2,500; to John W. Walker, for four two-storey and attic brick residences at 235 to 241 Markham street, to cost \$7,500; to The Diamond Glass Co., for an office and storage shed, near Armour street, on Dovercourt road, to cost \$2,600; to Bain Bros., for a pair of brick dwellings at 1 and 3 Cawthra square, to cost \$4,000; to D. L. McCarthy, for a two-storey and attic brick residence, at the corner of Castle and Spadina avenues, to cost \$5,500; to Wm. Wilson, for a factory at 80 and 82 Wellington street west, to cost

\$4,000; to The Eckardt Casket Co., for a mansard roof to 66 Esplanade street west, to cost \$1,500; to John McIvor, for a three-storey brick store and dwelling at 1148 Queen street west, to cost \$3,000.

CLEANING DRAIN PIPES.

In reply to a question as to whether there was any known article or chemical that will dissolve grease in a drain pipe, The Metal Worker of a recent issue said: "If the drain pipe is so choked up as to be entirely stopped, it is doubtful if any chemical will remove the obstruction. If, however, there is still an opening through which fluids can pass it is probable that the pipe can be cleared by the use of lye. Before the lye is used the pipe should be heated by letting hot water flow through it for some time; then the action of the lye will be more effective. If a stream of hot water is allowed to flow over the lye and into the drain pipe there would be kept up a continuous and effective heating and washing action. It is possible, if the grease has become thoroughly hardened, that the lye will work very slowly and that the operation will have to be repeated several times. The lye will eat the grease and leave a solid matter somewhat of the nature of chalk, but very porous and fragile. If, however, this residue is firm or hard the flushing movement will not be sufficient to remove it and the pipe will have to be opened to clear it away. In many instances, however, where the water from sinks and laundry tubs flows off very slowly, owing to the drain pipe becoming more or less choked with grease the use of a strong concentrated lye and hot water has been effective, and the experiment is worthy of a trial."

THE OTTAWA CONVENTION.

Among the delegates who will go from Toronto to the convention of the N.A.M.P. at Ottawa on Friday and Saturday next week, will likely be the following gentlemen: Wm. Mansell, secretary; W. H. Meredith, treasurer, and Jos. Wright, ex-president of the National association; James Wilson, president of the Toronto association; H. Hogarth, W. J. McGuire, and possibly three or four others. Two delegates, including President Smith, will likely go from London, Ont., and two from Windsor.

President Wilson has been organizing an association in Guelph, Ont., this week, so a delegate may be sent from that place.

SEND for specimen copy of Philips' Monthly Machinery Register, containing over 5,000 entries of new and second-hand machinery of every description. The oldest established and most successful medium in the world. Established 25 years for the purpose of introducing those who have machinery for sale, to those who wish to buy, has a circulation of about 50,000 copies per annum, all over the world, and is used for continual reference by a large number of firms. It is consequently a most valuable advertising medium for all engineers and manufacturers. Subscription, 1/6s. per annum, price per copy, 6d. Sole Proprietor, CHAS. D. PHILLIPS, M.I.M.E., Newport, Mon., England. Telegraphic address: "Machinery, Newport, Mon."

The Syracuse Smelting Works

ARE MANUFACTURERS OF

Plumbers' and Tinsmiths' Solder

of highest quality. Highest market prices paid for old Brass and Copper.

SYRACUSE SMELTING WORKS
MONTREAL.

We are the Oldest and Largest Manufacturers of

SCREWS and BICYCLE PARTS

in the Dominion. You know what that means, that if you want proper goods at proper prices you should write us, which please do if interested.

The...

John Morrow Machine Screw Co.

Ingersoll - Ontario.

JMT

VALVES

The best
For all uses

Manufactured by
For sale by
all the trade.



*The James Morrison
Brass Mfg Co. LIMITED
TORONTO.*

Not in the Combination

Write for prices on

MRS. POTTS SAD IRON HANDLES.

M. SCHRAYER'S SONS & CO.,

49 Blue Island Ave., Chicago, Ills.



Ontario Nut Works, Paris

BROWN & CO.

Manufacturers of

All sizes of Hot Pressed
Nuts, Square and Hexagon

Store Helps.

We don't blame you for hesitating before taking on "novelties" and accumulating dead stock after the "novelty" part has worn off.

What you want is "store help"—real, true, honest aids for business and for more of it, and that is just exactly what we offer you in Boeckhs' Bridled Brush for Painters.

It is no "novelty"—it is just a plain, sure, safe "store help," but it represents the most progressive time and labor saving idea for Painters that has ever been followed out on practical lines.

A flexible, liquid-proof bridle that gives each separate bristle its full flexible powers, enabling the paint to spread over the greatest possible amount of surface at one sweep of the brush. A bridle that can be taken off and replaced in a second, to cut down or to clean out the brush. Send for our illustrated book, telling all about

Boeckhs' Bridled Brushes

Boeckh Bros. & Company, Mfrs.
Toronto, Ont.
Montreal, Que.

Toronto Foundry Co.

Manufacturers of **SOIL PIPE, FITTINGS,
SINKS, BOILER STANDS.**

Nos. 146-148-150 Niagara Street, TORONTO

The only Exclusive Manufacturers of
Soil Pipe and Soil Pipe Fittings in
Canada.

All goods stamped T. F. Co. are warranted.

Ride Good Tires



Samson
New York
C. R. Co.

} Tires are Good Tires.

Write for Catalogue and Prices.

NEW YORK TIRE CO. - - - Toronto, Ont.

A LESSON IN ORDERING.

A CASE which seems to illustrate the glorious uncertainty of the law was recently tried at the Chippenham County Court; and, but for the fact that one always gets an impression in court as to who is right and who is wrong, which is not possible to be derived from the mere perusal of a report, we should be inclined to think that the judgment ought to have gone the other way. George Hathaway, the well-known churn manufacturer, sued Evan Davies & Company, ironmongers, Llanelly, for 16s. damage to a churn, 5s. 6d. carriage. The plaintiff said that the churn in question was returned because, as he admitted, it had not two handles, according to order. That, said the plaintiff, was an unreasonable objection, as churns of the size were not so provided. The defence was that plaintiff in his price list undertook to provide handles. The plaintiff said that the churn was sent back unpacked, and so got damaged; but the defendants declared they sent it back just as it was received.

In the end the plaintiff got 12s. 9d. and costs. Now, it happens that we know something of the inner working of churn factories, and are able to say that many private customers stipulate for accessories that makers consider redundant—and this fact we consider does away with the plaintiff's plea of "unreasonable objection." The lesson for the ironmongery trade to learn from this case is to be very careful in writing their orders to say distinctly that in the event of non-fulfilment of any condition (such as two handles, which, no doubt, was a requirement of the private customer) the goods would be returned. Put that down in black and white, and then such a judgment as the one in question would not be possible. —Hardwareman.

EDDY'S O.K. FIBRE BRUSHES.

The E. B. Eddy Co., Limited, Hull, Que., are placing on the market an assortment of scrub, stove and horse brushes. They are made by a new process on patented machinery. The backs being made from hardwood, and in one piece, and each tuft of fibre being fastened separately in this solid wood by a hard staple, it is impossible for them to warp or come apart.

A catalogue has just been issued, showing the various styles of brushes. There are 14 styles of scrub brushes, ranging in price from \$8.40 to \$24 per gross. The horse brushes are listed at \$30 to \$36 per gross; the stove brushes at \$24 per gross.

A more complete catalogue, including creamery, brewers' and whitewash brushes, will be issued in a few weeks, but dealers should write now for the catalogue already issued.

We Want Your Axe Order

FOR FALL SHIPMENT.

Kindly hold it till our representatives call on you.

James Warnock & Co., - Galt, Ont.

Hardwood CHARCOAL in Bulk or Sacks.
WOOD ALCOHOL equalling Methylated Spirits as a solvent.

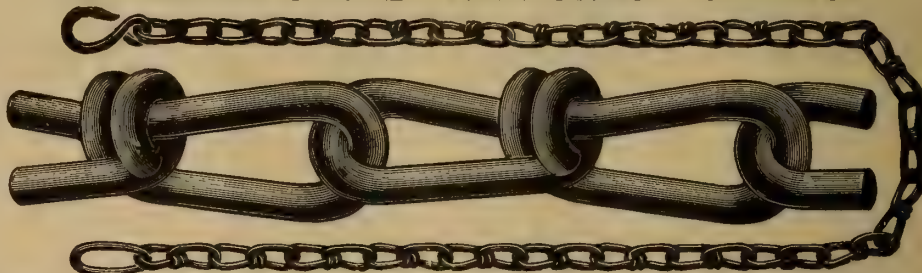
Manufactured only by...

THE STANDARD CHEMICAL CO., Limited

Factories { Fenelon Falls.
Deseronto.

Gooderham Building, **TORONTO**

IMPROVED STEEL WIRE TRACE CHAINS.



Made heavier and stronger. Every chain guaranteed. Most profitable and satisfactory chain to handle. Send for new prices for 1899.

THE B. GREENING WIRE CO., Limited
Hamilton, Ont., and Montreal, Que.

Syracuse Babbitt Metal

It's a Standard Quality
Lasts Longer
Keeps Cooler
Requires Less Oil

Than any other known
form of

BABBITT METAL.

Manufactured only by

Syracuse Smelting Works

MONTREAL.

SYRACUSE, N.Y.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker

22 St. John Street, Montreal.

Representing British and American manufacturers of
 Tinplate, Tinned Sheets, Terne Plates, Canada Plates, Gal-
 vanized Sheets, Imitation Russia Sheets, Black Sheets—Iron
 and Steel—Hoops and Bands, Proved Coil Chain, Brass and
 Copper Sheets, Norway Iron and Steel, Wheelbarrows, etc.

**VanTuyl & Fairbank**

Petrolia, Ont.

Headquarters for . .

Oil and Artesian Well
 Pumps, Casing, Tubing
 Fittings, Drilling
 Tools, Tables, etc.

R. C. LEVESCONTE

Barrister, Solicitor, Notary, Etc.

THE MCKINNON BUILDING
 Cor. Jordan and Melinda Streets

... TORONTO

Telephone 689.
 Cable "LeVesconte" Toronto.

1879 ESTABLISHED 1879

**ESSEX HANDLE and WOOD
TURNING WORKS.**

Late of Essex, now LEAMINGTON, ONT.

Makers of Axe, Fork, Rake, Hoe, Sledge, Broom,
 Hammer, and all kinds of Handles. Neck Yokes,
 Singletrees, and Doubletrees, Bench Saws, Exercise
 Clubs, Baseball Bats, etc., etc. Do you sell any
 Shaved Pattern and Octagon Axe Handles? The
 largest and best trade in Canada does, because they
 give best satisfaction. All stock air-dried, not kiln-
 dried. If you are going to be in it, place your
 order with

GARDNER BROS. & CO**ARE YOU A BUYER of**

**Hardware, Metals,
 Paints, Oils, etc. ?**

Send us Post Card, and a copy of the latest
 issue of **HARDWARE AND METAL**, the lead-
 ing authority on these trades, will be sent to
 you free by next mail. Address :

The MacLEAN PUBLISHING CO., Limited

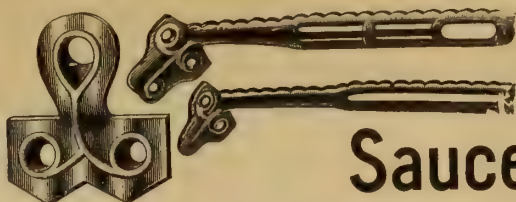
Board of Trade, MONTREAL.
 26 Front St. West, TORONTO.
 109 Fleet St., E.C., LONDON, ENG.

**"JARDINE"****TIRE UPSETTERS
WILL UPSET TIRES**

Some machines sold as Upsetters will not.
 Perhaps you make as much money on the
 sale of a useless Upsetter as on a good
 one, but your customer does not. He
 don't want a machine because it is called
 an Upsetter; he wants a machine to upset
 tires. Sell him one of ours.

IT PAYS TO SELL THE BEST TOOLS

**A. B. JARDINE & CO.
 HESPELER, ONT.**

**Pail Ears**

AND

Saucepan Handles.

Neatest designs, greatest strength and finest finish of any made. Large
 stock of all sizes constantly on hand and all orders filled promptly. By the
 gross, package or in bulk, as desired. SEND FOR CATALOGUE.

BERGER BROS. CO., Philadelphia, U.S.A.**STEVENS RIFLES****THE FAVORITE**

is made in three calibres

22, 25 and 32 Rim Fire

and is the best low-priced rifle made. Highest quality of work.
 Accuracy guaranteed. Weight, 4½ lbs.

No. 17, Plain Sights— List \$ 8.00
 No. 18, Target Sights— " 11.50
 No. 19, Lyman Sights— " 12.00

Send for our complete catalogue.

J. STEVENS ARMS & TOOL CO.

For Sale by All Leading Canadian Jobbers
 At Trade Discounts.

P.O. Box 215, CHICOPEE FALLS,
 MASS., U.S.A.

**CHURCH'S
POTATO BUG FINISH**

Ready For Use Dry. No Mixing Required.

The only safe way to use a strong poison.

Worth its cost as a Fertilizer. Does not injure the vines.

300 pounds net in every barrel. Price, f.o.b. Paris, \$2.75 per barrel,
 or four barrels for \$10.00. Send in your orders now.

The Alabastine Company, Sole Manufacturers, Paris
 Limited

HUTCHISON, SHURLY & DERRETT

**DOVERCOURT
 TWINE MILLS.**

**1078 BLOOR STREET WEST,
 TORONTO.**

Having equipped our Factory with entirely new machinery, we are prepared
 to furnish the best made goods in the market at closest prices and make
 prompt shipments.

**Hand Laid Cotton Rope and Clothes Lines,
 Cotton and Russian Hemp Plough Lines, plain and colored.
 Cotton and Linen Fish Lines, laid and braided.
 Netted Hammocks, white and colored, Tennis and Fly Nets.
 Skipping Ropes, Jute, Hemp and Flax Twines.**

BUSINESS CHANGES.

DIFFICULTIES, ASSIGNMENTS, COMPROMISES.

A. D. CAMERON & SON, coal and wood dealers, London, Ont., have assigned to C. B. Armstrong, London, and a meeting of their creditors has been called for June 26.

Wm. Steele, tinsmith, Carleton Place, Ont., has assigned to James Steele.

Geo. L. Blatch has been appointed receiver of Wadsworth & McWhinnie, roofers, Ottawa.

C. H. Bealieu, general merchant, New Carlisle, Que., has assigned. Paradis & Jobin have been appointed provisional guardians, and a meeting of creditors has been called for June 29.

PARTNERSHIPS FORMED AND DISSOLVED.

Newton Bros., general merchants, Grand Manan, N.B., have dissolved.

Neault & Carignan, general merchants, Grand Mere, Que., have dissolved.

Le Syndicate Canadien, general merchants, Drummondville, Que., have registered partnership.

Ulric Carriere and Oliver Masson have registered partnership as sash and door manufacturers under the style of Carrier & Masson, Montreal.

SALES MADE AND PENDING.

The assets of Chas. Laveau, hardware dealer, Montreal, have been sold at auction.

The business of James McDonald, blacksmith, Teeswater, Ont., is advertised for sale.

The assets of M. S. Taylor & Co., general merchants, Mansonville, Que., have been sold.

The business, etc., of Boyd & Morton, dealers in bicycles, sporting goods, etc., Ottawa, has been sold at auction.

CHANGES.

T. Walsh has started a carriage factory in Russell, Ont.

F. C. Kellow has bought out S. Burrow, dealer in stoves and tinware, Port Colborne, Ont.

T. W. Van Tuyl, manufacturer of bicycles, Petrolea, Ont., has opened a branch in London, Ont.

Joseph Lebel has registered as proprietor of Lebel & Massicotte, dealers in small-wares, Three Rivers, Ont.

John Hall has retired from business and John Cameron has started in business as blacksmith in Russell, Ont.

Mrs. O. Brisson has registered as proprietress of Beaudet & Co., general merchants, St. Pierre le Baecquets, Que.

FIRES.

The Toronto Glass Co. have been partially burned out; insured.

George Burnett's sawmill at Melbourne, Ont., has been burned out.

Wm. H. Hutchinson, builder, etc., Toronto, has suffered loss by fire.

The Toronto Furnace and Crematory Co., Limited, has suffered loss by fire; insured.

P. T. Legare, dealer in carriages, etc., Montreal, has been burned out; partially insured.

John Keenans, blacksmith, Kaslo, B.C., has been burned out; loss, \$400; no insurance.

J. J. Goodwin's rotary sawmill at Hope-well Cape, N.B., has been burned; loss, \$2,000; no insurance.

A BOOK OF ART.

The Watson, Foster Company, Limited, have now in course of preparation their

annual catalogue. It will contain 40 pages, half of which will be full-page illustrations, in half-tone, of some of their best patterns for the coming season. The quaint design of the cover and the beautiful paper on which it is reproduced will certainly combine to make the book one which may be well termed a work of art, and well worth preserving among other souvenirs and bric-a-brac.

The management of the company requested us to advise the dealers in wall papers that, if, after the present month has expired, they have not received a copy, they can be cheerfully supplied with one on application, as it is quite possible some may be inadvertently overlooked in the rush of mailing.

**This is the
time when**

~~~~~Bicycle Dealers

find the demand large for inner tubes. You will bring no disappointment to your customers, no discredit to yourself, if you furnish the customer with Goodrich inner tubes.

These are made of Goodrich rubber, standard of the world, from which all the best rubber goods are made. They are the best inner tubes made, because of the rubber and of the care exercised in making them.

—From out of our stocks you will find just about everything you will want for the best bicycle trade. We will not sell poor goods in anything. Your trade is helped and you are satisfied in purchasing your stocks of sundries from this house.

American Tire Co.,

LIMITED,

164-166 King St. West,

TORONTO.



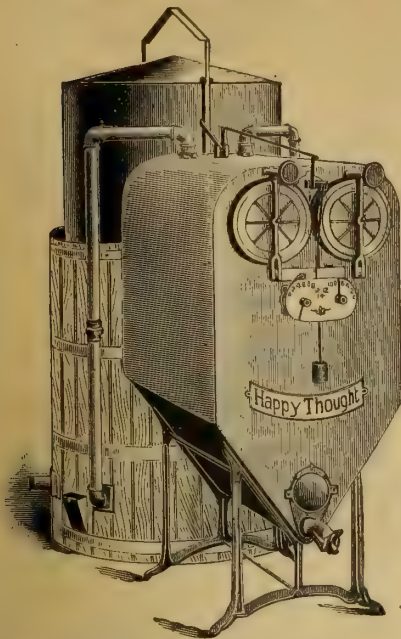
This eight-foot Brake bends 22-gauge iron and lighter, straight and true.

Price, \$50

Very handy beader attachment, \$20 extra, if required.

Send for circulars and testimonials to

The Double Truss Cornice
Brake Co. **SHELBURNE, ONT.**

ACETYLENE GAS.

Send for Catalogue—the best machine made—no waste or after generation—special approval from Fire Underwriters.
THE GUELPH ACETYLENE GAS CO., LIMITED
 GUELPH, ONT.

**STEEL LETTERS and FIGURES.**

If your Jobber does not keep our steel letters and figures send to us direct, we make everything in steel stamps.

HAMILTON STAMP & STENCIL WORKS

Hamilton, Ont.

D. F. Jones Manufacturing Co. Limited, of Gananoque, Ont.

Established 1852.

Shovels
Spades
Draining
Tools



Grain
and
Coal
Scoops
and
Miners'
Shovels

The only Canadian manufacturers of Plain Back Shovels and Spades **THAT ARE SOLID**, without weld, and graduated from socket to point, and from centre to sides, of blades.

All our goods have trade mark on the handle.

FULL STOCK

DIAMOND BRAND

WIND GUARDS,
CHIMNEY TOPS,
FLUE LININGS,

CULVERT PIPES,
SEWER PIPES,
INVERT BLOCKS.

Manufactured by the

HAMILTON AND TORONTO SEWER PIPE CO.

Hamilton, Ontario.

Limited

Best Crucible Steel.

MCCLELLAN FILES

Fully Warranted



Sold by **CANADA HARDWARE CO., LIMITED, MONTREAL**, Agents for Quebec.

HARRINGTON & RICHARDSON ARMS CO.

WORCESTER, MASS., U. S. A.



Makers of — **High Grade REVOLVERS**

SEND FOR COMPLETE CATALOGUE.

For sale by Sporting Goods and Hardware Stores almost everywhere.

PURE PARIS GREEN

Guaranteed Government Standard

Large Stock now on hand and in process of manufacture. Samples and prices on application.

PEUCHEN & CO., Gooderham Building, **Toronto**



Geo. D. Wood & Co.

WINNIPEG, MAN.

Importers of and Dealers in
SHELF AND HEAVY

**HARDWARE,
PAINTS, OIL,
GLASS,
PUMPS, ETC.**

Stock now **complete** in seasonable lines. **Prompt** shipment.

Letter orders receive **special** attention.

Gunn's Patent "Brassic" Goods

Made by an entirely new process.
Cheaper and better than old style.
Your stock not complete without them.



THE GUNN CASTOR CO., Limited

KNOX HENRY,

Canadian Agent, 220 1/2 Board of Trade, MONTREAL.

Nobles & Hoare.

CORNWALL ROAD STAMFORD STREET.

LONDON, ENG.

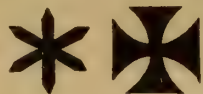
Manufacturers of

HIGH-CLASS VARNISHES ONLY

Which can be obtained direct from the works or from the principal Color Dealers in Canada.



CORPORATE MARK



JOSEPH RODGERS & SONS, Limited.

MANUFACTURERS OF

Pocket and Table Cutlery, Scissors, Razors, Erasers, Etc.

These goods have fully maintained their reputation as the best cutlery in the world for over

ONE HUNDRED AND FIFTY YEARS.

Any Infringements of our Name and Corporate Mark will be promptly prosecuted.

Sole Agents for Canada,

JAMES HUTTON & CO.,

Montreal

CURRENT MARKET QUOTATIONS.

June 23, 1899.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

Tin.

Lamb and Flag—
56 and 28 lb. ingots, per lb. 0 29 0 30
Straits 0 28½ 0 29

Tinplates.

Charcoal Plates—Bright.
M.L.S., equal to Bradley. Per box.
I.C., usual sizes \$5 50
I.X. 6 75
I.X.X., " 8 00
R. & Co.—
I.C. 5 50
I.X. 6 75
I.X.X. 8 00
Famous—
I.C. 5 50
I.X. 6 75
I.X.X. 8 00
Raven & Vulture Grades—
I.C., usual sizes 4 25
I.X. 5 00
I.X.X. 5 75
I.X.X.X., " 6 50
D.C., 12½x17 3 75
D.X. 4 50
D.X.X. 6 50
NOTE.—Other brands might be shaded by 25c per box.

Coke Plates—Bright.

Bessemer Steel—
I.C., usual sizes 3 60
I.C., special sizes, base... 3 85
20x28. 7 50

Dean or J. G. Grade—
I.C., 20x28, 112 sheets 6 75
I.X., Terne Tin 8 25

Charcoal Tin Boiler Plates.
Cookley Grade—
X.X., 14x55, 50 sheet bxs }
" 14x60 " } 0 06½ 0 07
" 14x65 " }

Tinned Sheets.
72x30 up to 24 gauge 0 06 0 06½
" 26 " 0 06½ 0 07
" 28 " 0 07 0 07½

Iron and Steel.

Base Price
Common Bar, per 100 lbs 1 90
Refined " 2 20
Horse Shoe 1 85
Hoop steel, 1½ to 3 in. base,
extras for smaller sizes 2 60
Swedish 4 00
Sleigh Shoe Steel " base 4 25
Tire Steel 2 50
Machinery 2 65
Cast Steel, per lb 0 10
Toe Calk Steel 2 95
Toe Weight Steel 6 10
Thos. Firth & Sons' Cast Steel 0 12
Russian Sheet, per lb 0 10½
Tank Plates, 1-5 and thicker. 2 00
Boiler Rivets 4 50

Boiler Tubes.

1½-inch 0 11
2 " 0 12
2½ " 0 14

Steel Boiler Plate.

¾ inch 3 25

3-16 inch 3 40
¾ inch and thicker 3 25

Black Sheets.

18 gauge 2 60
20 " 2 60
22 to 24 " 2 70
26 " 2 80
28 " 3 00

Canada Plates.

All dull, 52 sheets 2 50
Half polished 2 60
All bright 3 10

Iron Pipe.

Wrought pipe, per 100 feet, ¾ to 1½ inch,
\$3 25; ¾ inch, \$3 80; 1 inch, \$5 25; 1½ inch,
\$7 00; 1½ inch, \$8 75; 2 inch, \$12 00. 2½ to 6
inch, discount 60 p.c.
Galvanized, ¾ inch to 1½ inch, \$6 00; ¾
inch, \$7 50; 1 inch, \$10 50; 1½ inch, \$14 75;
1½ inch, \$18 50; 2 inch, \$26 00.

Galvanized Iron.

G. C. Comet. Amer. Queen's
Head.
16 gauge 3 85 4 00
18 to 24 gauge 4 25 4 00 4 25
26 " 4 50 4 25 4 50
28 " 4 75 4 60 4 75
Less than case lots, 25c. per 100 lb. additional.

Chain.

Proof Coil, 3-16 in., per 100 lbs 6 75
" ¼ " " 4 75
" ½ " " 4 30
" ¾ " " 4 15
" 1 " " 3 05
" 1½ " " 3 85
" 2 " " 3 75
Trace, per doz. pairs 3 60 5 90
Jack chain, iron, single, per
doz. yards 0 13 0 50
Jack chain, double, per doz.
yards 0 15
Jack chain, brass, single, per
doz. yards 20 10

Copper.

Ingot.
English B. S., ton lots 0 19 0 19½
Lake Superior
Bolt or Bar.
Cut lengths, round, ½ to ¾ in. 0 23½ 0 25
" round and square
1 to 2 inches... 0 23½ 0 25
Sheet.
Untinned, 14 oz., and light, 16
oz., 14x48 and 14x60 0 23 0 23½
Untinned, 14 oz., and light, 16
oz., irregular sizes 0 23 0 23½
NOTE.—Extra for tinning, 2 cents per
pound, and tinning and half planishing 3
cents per pound.
Tinned copper sheets 0 26
Planished 0 32

Braziers. (In sheets.)

4x6 ft. 25 to 30 lbs. ea., per lb. 0 25
" 35 to 45 " 0 24
" 50-lb. and above, " 0 23
Boiler and T. K. Pitts.
Plain Tinned, per lb 0 28
Spun, per lb 0 32

Brass.

Roll and Sheet, 14 to 30 gauge, 5 per cent.
Sheets, hard-rolled, 2x4 0 24 0 25
Tubing, base, per lb 0 24 0 25

Zinc Spelter

Foreign, per lb 0 07½ 0 07½
Domestic 0 07 0 07

Zinc Sheet.

1 cwt. casks 0 08½
Part casks 0 08½

Lead.

Imported Pig, per lb 0 04½ 0 04½
Domestic, per lb
Bar, 1 lb. 0 05½
Sheets, 2½ lbs. sq. ft., by roll. 0 05 0 05½
Sheets, 3 to 6 lbs., per sq. ft.,
by roll. 0 04½ 0 05
NOTE.—Cut sheets ½ cent per lb. extra.
Pipe, by the roll, usual weights per yard, lists
at 7 cents per lb. and 17½ per cent. discount
NOTE.—Cut lengths, net price, waste pipe
8-ft. lengths, lists at 7½ cents.

Shot.

Net list; no discount.

Soil Pipe.

Discount, 60 per cent.

Solder.

Per lb. Per lb.
Bar half-and-half 0 17 0 18½
Refined 0 16½ 0 17½
Wiping 0 16 0 17
NOTE.—Prices of this graded according to
quantity. The prices of other qualities or
solder in the market indicated by private
orders vary according to composition.

Antimony.

Cookson's, per lb 0 11 0 11½

White Lead.

Per cwt.
Pure, Assoc. guarantee, ground in oil,
25 lb. irons 6 12½
No. 1 do 5 74½
No. 2 do 5 37½
No. 3 do 5 00
No. 4 do 4 62½
Robertson's Chemically Pure 6 12½
Munro's Select Flake White 6 37½
Elephant and Decorators' Pure 6 12½
Brandram's B. B. Genuine 8 12½
James' genuine. No. 1 7 25
" No. 2 6 75

White Zinc Paint.

Elephant Snow White 0 08
Pure White Zinc 0 08
No. 1 0 06
No. 2 0 05

Dry White Lead.

Pure, casks 0 07½
Pure, kegs 0 05½
No. 1, casks 0 04½
No. 1, kegs 0 05½

Prepared Paints.

(In ¼, ½ and 1 gallon tins.)
Pure, per gallon 1 00
Second qualities, per gallon... 0 90
Barn (in bbls.) 0 70
The Sherwin-Williams Paints 1 20
Canada Paint Co's Pure 1 00
Robertson's Pure 1 00
Sanderson Peary's Pure 1 00

Colors in Oil.

(25 lb. tins, Standard Quality.)
Venetian Red, per lb 0 05
Chrome Yellow 0 11
Golden Ochre 0 05
French " 0 05
Marine Black 0 09
" Green 0 09
Chrome " 0 08
French Imperial Green 0 19

Colors, Dry.

Yellow Ochre (J. C.) bbls. per
cwt 1 35 1 40
Yellow Ochre (J. F. L. S.), bbls.
per cwt 2 75
Yellow Ochre (Royal), per
cwt 1 10 1 15
Brussels Ochre 2 00
Venetian Red (best), per cwt. 1 80
English Oxides, per cwt. 3 00 3 25

American Oxides, per cwt. 1 75 1 90
Canadian Oxides, per cwt. 1 75 1 90
Burnt Sienna, pure, per lb. 0 10
" Umber, 0 10
do aw 0 09
Drop Black, pure 0 09
Chrome Yellows, pure 0 18
Chrome Greens, pure, per lb. 0 12
Golden Ochre 0 03½
Ultra marine Blue in 28-lb
boxes, per lb. 0 08 0 24
Fire Proof Mineral, per 100 lb. 1 00
Genuine Eng. Litharge, per lb 0 07
Mortar Color, per 100 lb. 1 25
James' Gen. Red Lead, 100 lb 0 04½
Pure Indian Red, No. 45, lb. 0 08
Whiting, per 100 lb 0 55

Paris Green.

250 lb. casks 0 13½
50 lb. drums 0 14
1 lb. packages 0 15
½ lb. 0 16½
1-lb. tins. 0 15½

Sulphate of Copper.

Casks, for spraying, per lb. 0 07
100-lb. lots, do. per lb. 0 08

Putty.

Bladders in bbls. 1 80
Bladders in 100 or 200 lb. kegs or bxs 1 95
Bulk in bbls., per 100 1 65
Bulk in less quantities. 1 80
25-lb. tins, 4 in case 2 05
12½-lb. tins, 8 in case 2 30
Quotations f.o.b. Toronto—10c. per 100 lbs.
extra Hamilton, London Guelph. For quan-
tities less than 100-lb., 2½c. per lb.

Varnishes.

(In 5-gal. lots.) Per gal.
Carriage, No. 1 1 30 1 40
Extra do. 1 50 1 60
Body Varnish 3 40 3 50
Furniture Varnish 0 50 0 60
Extra do. 1 00 1 10
Demar Varnish 1 50
Hard Oil Finish 1 30 1 35
Orange Shellac Varnish 2 00 2 10
White Shellac 2 20 2 25
Rubbing Varnish 2 00
Brown Japan 0 75
Elastic Oak 1 20 1 30

Linseed Oil.

Raw, per gal. net 0 56
Boiled, per gal. net 0 59
Outside points 1c. more than above figures

Turpentine.

1 to 4 barrels, net 0 60
Outside points 1c. more

Castor Oil.

In cases, per lb 0 09
Small lots. 0 10

Cod Oil, Etc.

Cod Oil, per gal. 0 50 0 55
Pure Olive 1 20 2 00
" Neatsfoot 90

Glue.

(In bbls.)
Common 0 08½ 0 09
French Medial 0 12 0 12½
Cabinet, sheet 0 11 0 12
White, extra 0 16 0 18
Gelatine 0 22 0 30
Strip 0 16 0 18
Coopers 0 19 0 20
Al clear 0 09

HARDWARE.

Ammunition.

Cartridges.
B. B. Caps, Dom., 50 and 5 per cent.
Rim Fire Pistol, dis. 45 p. c., Amer.
Rim Fire Cartridges, Dom., 50 and 5 p. c.
Rim Fire, Military, net list, Amer.
Central Fire Pistol and Rifle, 18 p. c., Amer.

Up-to-date goods. Correct prices.
Prompt shipments. 270-page catalogue free.

DODGE MANUFACTURING CO. OF TORONTO, LIMITED

Works: Toronto Junction.

Office : 74 York St., TORONTO, ONT.

Central Fire Cartridges, pistol sizes, Dom. 30 per cent.	American, per lb.....	0 35	4 40	Carpet Stretchers.	American per doz.....	1 00	1 50	FRUIT PRESSES.	Henis', per doz.....	3 25	3 50
Central Fire Cartridges, Sporting and Military, Dom., 15 and 5 per cent.					Bullard's, per doz.....	6 50			Shepard's Queen City, dis. 15 per cent.		
Central Fire, Military and Sporting, Amer. net list. B.B. Caps. discount 45 per cent. Amer.				Bells.				GAUGES.			
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. Rival and Nitro, 17 p.c.				Hand, per doz.....	3 35	4 75			Marking, Mortise, Etc.		
Brass Shot Shells, 55 and 10 per cent.				Moulders, per doz.....	7 50	10 00			Stanley's, dis. 50 to 55 per cent.		
Primers, Dom., 80 per cent.				Blacksmiths', discount 60 per cent.					Wire Gauges.		
Wads.	per lb.			Belting.					Winn's, Nos. 26 to 33, each.....	1 65	2 40
Best thick white felt wadding, in ¼-lb bags.....	1 00			Extra, 50 per cent.							
Best thick brown or grey felt wads, in ¼-lb. bags.....	0 70			Standard, 50 and 10 to 50, 10 and 5 per cent.							
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 99			Agricultural, 60 and 10 p.c.							
Best thick white card wads, in boxes of 300 each, 10 gauges.....	0 35			Bits.							
Best thick white card wads, in boxes of 40 each, 8 gauge.....	0 55			Auger.							
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges.....	0 20			Gilmour's, discount 50 and 10 per cent.							
Thin card wads, in boxes of 1,000 each, 10 gauge.....	0 25			Rockford, Common, 70 to 70 and 10 per cent.							
Thin card wads in boxes of 1,000 each, 8 gauge.....	1 10			" Perfection, 50 and 10 per cent.							
Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M			Jennings' Gen., net list.....							
11 and smaller gauge.....	0 60										
9 and 10 gauges.....	0 70			Car.							
7 and 8 gauges.....	0 91			Gilmour's, 47½ to 51 per cent.							
5 and 6 gauges.....	1 10			Expansive.							
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—				Clark's, 47 per cent.							
11 and smaller gauge.....	1 15			Gimlet.							
9 and 10 gauges.....	1 40			Clark's, per doz.....	0 65	0 90					
7 and 8 gauges.....	1 65			Diamond, Shell, per doz.....	1 00	1 50					
5 and 6 gauges.....	1 90			Nail and Spike, per gross.....	2 25	5 20					
Adzes.				Blind Rollers.							
Discount, 33½ per cent.				Annex, per doz.....	1 25	1 75					
Anvils.				Mascott, ".....	1 35	1 85					
Per lb.....	0 10	0 12½		Erminie, ".....	1 00	0 00					
Each and Vice combined.....	4 51			Blind and Bed Staples.							
Wilkinson & Co.'s Anvils.....lb.	0 09½			All sizes, per lb.....	0 07½	0 12					
Wilkinson & Co.'s Vices.....lb.	0 19¾	0 10		Bolts and Nuts.							
Augers.											
Gilmour's, discount 50 and 10 p.c. off revised list.											
Hollow, Stearn's, per dozen.....	13 00	20 00									
Adjustable, Stearn's, each.....	4 50	6 50									
Post-hole, Vaughan's, each.....	60	90									
AXES.											
Splitting Axes.....	5 25	5 50									
Chopping Axes—											
Single List, per doz.....	6 00	12 00									
Double List.....	11 00	18 00									
Bench Axes, 40 and 15 p.c.											
Broad Axes, 33½ per cent.											
Bath Tubs.											
Zinc.....	3 90	4 00									
Copper, discount 40 and 10 p.c. off revised list.											
Steel clad, 20 per cent. discount off revised list. Boxing extra.											
Anti-Friction Metal.											
"Tandem" A.....	per lb.	0 23									
"B.....	"	0 19									
"C.....	"	0 11½									
"Monarch" 1.....	"	0 21									
"2.....	"	0 15									
"3.....	"	0 10									
"Canadian".....	"	0 08½									
Magnolia Anti-Friction Metal, per lb.	0 25										
No Name Metal.....	0 15										
Mystic Metal.....	0 10										
F. O. B. New York or Chicago.											
Bells.											
Hand.											
Brass, 60 per cent.											
Nickel, 55 per cent.											
Door.											
Gongs, Yargant's.....	5 50	8 00									
"Peterboro', discount 50 per cent.											
Cow.											
American make, discount 66½ per cent.											
Canadian, discount 45 and 50 per cent.											
Farm.											
American, each.....	1 25	3 00									

Gilmour's, discount 50 and 10 per cent.	Rockford, Common, 70 to 70 and 10 per cent.	" Perfection, 50 and 10 per cent.	Jennings' Gen., net list.....	Gilmour's, 47½ to 51 per cent.	Expansive.	Clark's, 47 per cent.	Gimlet.	Clark's, per doz.....	Diamond, Shell, per doz.....	Nail and Spike, per gross.....	Blind Rollers.	Annex, per doz.....	Mascott, ".....	Erminie, ".....	Blind and Bed Staples.	All sizes, per lb.....	Bolts and Nuts.		Norway Bolts, full square.....	Common Carriage Bolts, 5-16 & under.....	" "
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HOOKS.		
Cast Iron.		
Bird Cage, per doz.	0 50	1 10
Clothes Line, per doz.	0 27	0 63
Harness, per doz.	0 72	0 88
Hat and Coat, per gross.	1 00	3 00
Chandelier, per doz.	0 50	1 00

Wrought Iron.		
Wrought Hooks and Staples, Can., dis. 4 1/2 per cent.		
Wire.		
Hat and Coat, discount 60 per cent.		
Belt, per 1,000.	0 61	0 70
Screw, bright, dis. 65 and 10 per cent.		

HORSE NAILS.		
"C" brand 50 p.c. dis.	} Oval head.	
"M" brand 50 p.c.		

Acadian, 50 and 20 p.c., countersunk head.

HORSESHOES.		
Iron Shoes.		
	F.O.B. Toronto.	
	No. 2 and larger.	No. 1 and smaller.
Light, medium, and heavy.	3 50	3 75
Snow shoes.	3 75	4 00
Steel Shoes.		
Light.	3 75	4 00
Featherweight (all sizes).	5 00	5 00

ICE PICKS.		
Star, per doz.	3 00	3 25

KETTLES.		
Brass spun, 7 1/2 p.c. dis. off new list.		
Copper, per lb.	0 30	0 35
American, 60 and 10 to 65 and 5 p.c.		

KEYS.		
Lock, Can., dis., 50 p.c.		
Cabinet, trunk, and padlock.		
Am. per gross.		60

KNOBS.		
Door, japanned and N.P., per doz.		0 90
Bronze, Berlin, per doz.	2 75	3 25
Bronze Genuine, per doz.	6 00	9 00
Shutter, porcelain, F. & L. screw, per gross.	1 30	4 00

KNIVES.		
Clan's bread, cake, and paring knives, \$7 00 dis. set net. 10 per cent.		
Christie, bread, cake and paring knives, \$7 00 dis. sets, with 10 p.c. off.		
Hay knives, spear point, L or T handle, 60 10 and 5 per cent.		
Lightning, per doz.	6 50	8 40
Health's, \$7.75 net.		

LANTERNS.		
Cold Blast, per doz.		7 00

LEMON SQUEEZERS.		
	per doz.	
Porcelain lined.	2 21	5 60
Galvanized tin.	1 87	3 35
King, wood.	2 75	2 91
King, glass.	4 00	4 50
All glass.	1 21	1 30

LINES.		
Fish, per gross.	1 05	2 50
Chalk.	1 90	7 40

LOCKS.		
Canadian, dis. 50 p.c.		
Russell & Erwin, per doz.	2 00	2 20
Cabinet.		
Eagle, dis. 30 p.c.		

Padlock.		
English and Am., per doz.	50	6 00
Scandinavian.	1 00	2 40
Eagle, dis. 15 to 17 1/2 p.c.		

MACHINE SCREWS.		
Iron and Brass.		
Flat head, discount 25 p.c.		
Round Head, discount 25 p.c.		

MALLET.		
Tinmith's, per doz.	1 25	1 50
Carpenter's, hickory, per doz.	1 25	3 75
Lignum Vitae, per doz.	3 85	5 00
Caulking, each.	63	2 00

MATTOCKS.		
Canadian, per doz.	8 50	10 00
American, 60 and 10 p.c. off 1st.		

MEAT CUTTERS.		
American, dis. 30 to 32 1/2 p.c.		
German, 15 per cent.		

MILK CAN TRIMMINGS.		
Discount, 25 and 10 per cent.		

NAILS.		
Quotations are:	Cut.	Wire.
24 and 3d.	\$2 15	\$3 65
31.	2 80	3 30
4 and 5 1/2.	2 75	3 05
6 and 7d.	2 55	2 95
8 and 9d.	2 30	2 80
10 and 12d.	2 25	2 75
16 and 20d.	2 20	2 70
30, 40, 50 and 60d. (base).	2 15	2 65
Steel Cut Nails 10c. extra.		

NAIL PULLERS.		
German and American.	1 85	3 50

NAIL SETS.		
Square, round, and octagon, per gross.	3 38	4 00
Diamond.	12 00	15 00

NETTING.		
Poultry, 50 and 5 per cent. for McMullen's.		
OIL.		
Canada refined (Toronto).	0 13 1/2	
Sarnia Water White.	0 15	
Prime Water.	0 14	
American w. w.	0 16 1/2	
Pratt's Astral.	0 18	

OILERS.		
McClary's Model galvan. oil can, with pump, 5 gal., per doz.	0 00	10 00
Zinc and tin, dis. 50, 50 and 10.		
Copper, per doz.	1 25	3 50
Brass, 10.	1 50	3 50
Malleable, dis. 25 per cent.		

PAIS.		
Galvanized, straight pattern	per doz.	
No. 12.		2 00
Galvanized, straight pattern		
No. 14.		2 25
Galvanized, straight pattern		
No. 16.		2 55
Flaring pattern, No. 11.		2 25
" " No. 12.		2 50
" " No. 13.		2 85
" " No. 14.		3 30

PICKS.		
Per doz.	6 00	9 00
PICTURE NAILS.		
Porcelain head, per gross.	1 40	3 00
Brass head.	0 40	1 00

PLANES.		
Wood, bench, Canadian dis. 55 per cent.		
American dis. 55.		
Wood, fancy Canadian or American, 37 1/2 to 40 per cent.		
Bailey's (Stan. R. & L. Co.), 50 to 50 and 5 p.c.		
Miscellaneous, dis. 25 to 27 1/2 per cent.		
Bailey's Victor, 25 per cent.		

PLANE IRONS.		
English, per doz.	2 00	5 00
PLIERS AND NIPPERS.		
Button's Genuine, per doz pairs, dis. 37 1/2 40 p.c.		
Button's Imitation, per doz.	5 00	9 00
German, per doz.	0 60	2 60

PULLEYS.		
Hothouse, per doz.	0 55	1 00
Axle.	0 22	0 33
Screw.	0 27	1 00
Awning.	0 35	2 50

PUMPS.		
Canadian cistern.	1 40	2 25
Canadian pitcher spout.	1 15	2 00

PUNCHES.		
Saddlers, per doz.	1 00	1 85
Conductors.	9 00	15 00
Tinners' solid, per set.	0 00	0 72
" hollow, per inch.	0 00	1 10

RAKES.		
Cast steel and malleable Canadian, list dis. 6 1/2, 11 and 5 p.c. revised list.		
Wood, 25 per cent.		

RASPS AND HORSE RASPS.		
New Nicholson horse rasp, discount 60 p.c.		
Globe File Co.'s rasps, 60 and 10 to 70 p.c.		
Heller's Horse rasps, 50 to 50 and 5 p.c.		

RAZORS.		
	per doz.	
Geo. Butler & Co.'s.	8 00	18 00
Roker's.	7 50	11 00
Waide & Butcher's.	3 60	10 00
Theile & Quack's.	7 00	12 00

RIVETS AND BURRS.		
Carriage, Section, Wagon Box Rivets, etc. (steel), 60 p.c.		
Carriage, Section, Wagon Box Rivets, etc. (Norway Iron), 55 p.c.		
Black M Rivets (Steel) 50 p.c.		
Black and Tinned Rivets, 60 p.c.		
Extras on Iron Rivets in 1-lb. cartons, 1/2c. per lb.		
Extras on Iron Rivets in 1/2-lb. cartons, 1c. per lb.		
Copper Rivets & Burrs, 35 p.c. dis., and cartons, 1c. per lb. extra, net.		
Extras on Tinned or Coppered Rivets in 1/2-lb. cartons, 1c. per lb.		
Burrs, iron or steel, 45 per cent.		
Terms, 4 mos. or 3 per cent. cash 30 days.		

RIVET SETS.		
Canadian, dis. 35 to 37 1/2 per cent.		

ROPE, ETC.		
7-16 in. and larger, per lb.	Sisal.	Manila.
3/8 in.	11 1/2	11 1/2
1/2 and 5-16 in.	11 1/2	12
Cotton.	13	13
Russia Deep Sea.	14 1/2	14 1/2
Lute Yarn.	14 1/2	14 1/2
New Zealand Rope.	9 1/2	9 1/2

RULES.		
Boxwood, dis. 75 and 10 p.c.		
Ivory, dis. 37 1/2 to 40 p.c.		

SAD IRONS.		
Mrs. Potts, per set.	0 67 1/2	
N. P., per set.	0 80	

SAND AND EMERY PAPER.		
Dominion Flint Paper, 47 1/2 per cent.		
B & A. sand, 40 and 2 1/2 per cent.		
Emery, 40 per cent.		

SASH CORD.		
Per lb.	0 20	0 50

SASH WEIGHTS.		
Sectional, per 100 lbs.	1 40	1 75
Solid,		1 25

SAWS.		
Hand, Diston's, dis. 12 1/2 to 15 p.c.		
S. & D., 40 per cent.		
Crosscut, Diston's, per ft.	0 35	0 55
S. & D., dis. 35 p.c. on Nos. 2 and 3.		
Hack, complete, each.	0 75	2 75
" frame only.		0 75

SAW SETS.		
"Lin'-olein," per doz.	5 50	6 00

SCALES.		
Gurney Scales, 50 p.c.		
B. S. & M. Scales, 50 p.c.		
Champion 60 per cent.		
Fairbanks Stand rd. 45 p.c.		
" Dominion, 60 p.c.		
" Richelieu, 60 p.c.		
Chatillon Spring Balances, 25 p.c.		

SCREENS.		
Door patent per doz.	6 00	12 00
Window, per doz.	2 00	3 00

SCREW DRIVERS.		
Sargent's, per doz.	0 65	1 00

SCREWS.		
Wood, F. H., iron, and steel, 82 1/2 and 5 p.c.		
Wood R. H., " dis. 75 and 5 p.c.		
F. H., brass, dis. 75 and 5 p.c.		
Wood, R. H., " dis. 67 1/2 and 5 p.c.		
" F. H., bronze, dis. 67 1/2 and 5 p.c.		
" R. H., " dis. 12 1/2 and 5 p.c.		
Drive Screws, 82 1/2 and 5 per cent.		
Bench, wood, per doz.	3 25	4 00
" iron, " "	4 25	5 75

SCYTHES.		
Discount, per doz. net.	4 50	6 00

SCYTHE SNATHS.		
Canadian, dis. 50 p.c.		

SHEARS.		
Seymour's, dis. 50 and 10 p.c.		
Heinisch, dis. 50 and 10 p.c.		
Claus's full nickel, 50 and 10 p.c.		
" japanned handles, 67 1/2 p.c. off.		
Seymour or Heinisch tailor shears, 15 p.c.		

SHOVELS AND SPADES.		
Canadian, dis. 40 and 5 per cent.		

SNAPS.		
Harness, German, dis. 35 to 37 1/2 p.c.		
Acme.	3 00	5 00
Lock, Andrews.	4 50	11 50

SOLDERING IRONS.		
2 lb., per lb.	0 30	
3 lb.,	3 00	

WROUGHT SPIKES.		
Discount, 35 to 40 per cent.		

SQUARES.		
Iron, per doz.	1 65	2 90
Steel, dis. 70 per cent., revised list.		
Try and bevel, dis. 55 to 52 1/2 p.c.		

STAPLES.		
Galvanized.	3 25	
Bright.	3 00	

STOCKS AND DIES.		
American dis. 25 p.c.		

STONE.		
	Per lb.	
Washita.	0 28	0 60
Hindustan.	0 16	0 17
" slip,	0 09	0 09
Labrador.	0 03	0 13
" Axe.	0 15	0 15
Turkey.	0 51	0 51
Arkansas.	1 50	1 50
Wat-rof-Ayr.	0 00	0 10
Scythe, per gross.	3 50	5 00
Grind, per ton.	15 00	18 00

STAPLES.		
Galvanized	3	25

HAM & NOTT MFG. CO.

Limited

Formerly Knowles, Ham & Nott Co., Limited

BRANTFORD.



Manufacturers of Refrigerators, Screen Doors, Screen Windows, etc. Household Refrigerators in four lines, Grocers' Refrigerators two lines, Screen Doors six lines, Screen Windows three lines All in various sizes. Our aim is to make first-class goods at the right prices, and to deal fairly with all having dealings with us. Send for 1899 catalogue.

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Price Low.



Quality High.

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"THE BEST IS CHEAPEST."

Buy McMullen's unequalled

Poultry Netting

-- and --

Fencing.

Made by

The Ontario Wire Fencing Co.

Limited

PICTON, ONT.

For sale by The Canadian Hardware Jobbers ; The B. Greening Wire Co., Hamilton and Montreal, General Agents, and James Cooper, Montreal, Agent for Railway Fencing.
(20)

CHAS. F. CLARK, President. JARED CHITTENDEN, Treasurer. Established 1849.

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THE BRADSTREET COMPANY

Toronto Office: Cor. Jordan and Melinda Sts.

THOS. C. IRVING, Superintendent.

CAUSES OF FAILURE

In the Hardware Trade and How Avoided.

As long as there are failures, subjects that furnish information how to prevent them will always be timely. We have published, in pamphlet form, three admirable papers on the above topic, in which Over-Stocking, Expense, Capital, Credit, Discounts, Buying, etc., etc., are ably discussed. We will mail the whole three essays to any address on receipt of

10 cents

HARDWARE AND METAL, Toronto

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We have also lists of firms in every branch of trade in the Dominion, the professions, club members, society, etc., and we are prepared to address and mail circulars or letters to these at any time.

THE PRESS CLIPPING BUREAU

Board of Trade, Montreal

PERSONS addressing advertisers will kindly mention having seen their advertisement in Canadian Hardware and Metal Merchant.

THE OAKVILLE

BASKET CO.,

Manufacturers of

1, 2, 3 Bushel

Grain

AND

Root

BASKETS

THE OAKVILLE BASKET CO.



PERFECTION

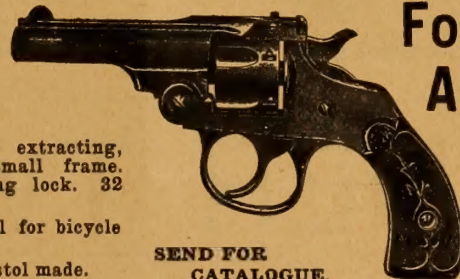
AUTOMATIC

REVOLVER.

NEW Automatic shell extracting, double action, small frame. Weighs 12 oz. Rebounding lock. 32 caliber. 5 shot.

Made with shorter barrel for bicycle use.

The most perfect small pistol made.



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Forehand Arms Co.

Manufacturers of the

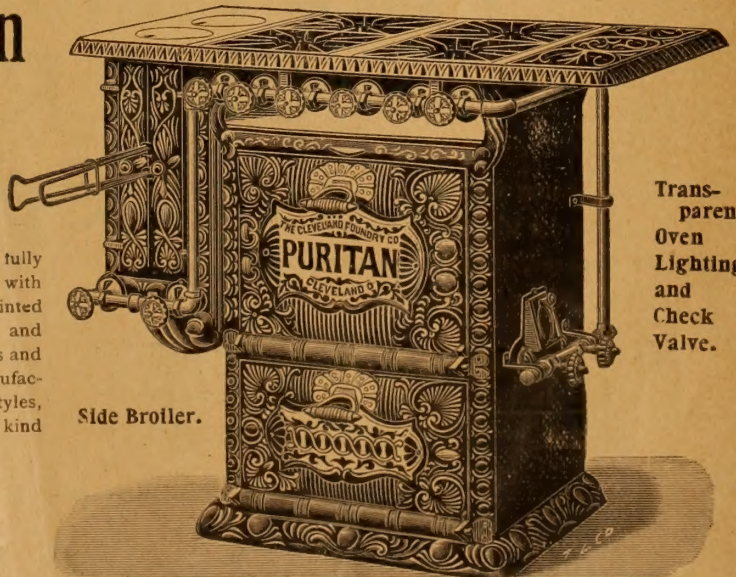
Forehand Guns

Worcester, Mass.

Puritan Gas Range

This range is beautifully designed and fitted with the latest needle-pointed stop valves. With and without water heaters and side broilers. Manufactured in 20 different styles, and suitable for any kind of gas.

Secure the agency for this line of goods and bring business to your store.



Side Broiler.

Trans-parent Oven Lighting and Check Valve.

R. BIGLEY, Canadian Agent, Toronto, Ont.

Est. 1863

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Black Diamond File Works

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PHILADELPHIA

Twelve

Medals

Awarded

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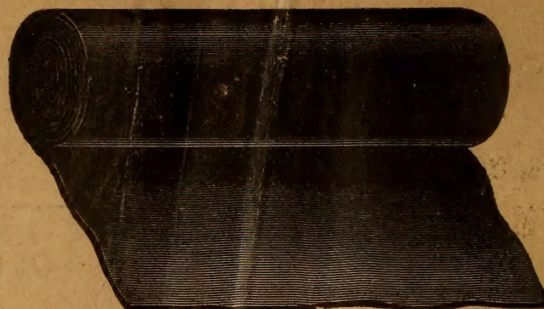
International Expositions

Special Prize

Gold Medal at Atlanta, 1895

HAVE YOU TRIED IT ?

"PYRAMID" BRAND



BLUESTONE

HIGH PRESSURE PACKING

FOR STEAM

HOT or COLD WATER and AIR.

Packs equally well for all.

There is no Packing made that will last as long or withstand as well the action of Steam Heat.

Stock rolls about 36 inches wide and 1/32, 1/16, 3/32, or 1/8 in. thick.

Sole Manufacturers:

THE GUTTA PERCHA AND RUBBER MFG. CO.

OF TORONTO, LIMITED.

61-63 FRONT ST. WEST, TORONTO.

BINDER TWINE.

There is none
"just as good."

Pure Manila 650-ft. to the lb.

Blue Ribbon

Special Manila

Tiger

Standard

These Twines will not bunch at the knotter, and a Binder will run all day with them without stoppage, thus saving time, annoyance and an endless lot of trouble.

We pack our twine in bags of the size of ordinary grain bags and are not ashamed to put our name upon them. Don't take any other.

Consumers Cordage Company, LIMITED, Montreal.

